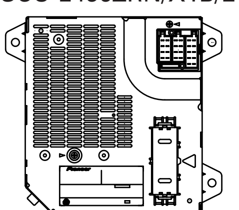
Service Manual

Pioneer

RENAULT

SCU-2456ZRN/X1B/EW



ORDER NO.
CRT2457

SYSTEM CONTROL UNIT

SCU-2456ZRN X1B/EW
SCU-2556ZRN X1B/EW

VEHICLE	DESTINATION	PRODUCED AFTER	PART No.	ID No.	PIONEER MODEL No.
ESPACE and AVANTIME	EUROPE	March 2000	6025 40 3834	——	SCU-2456ZRN/X1B/EW
ESPACE and AVANTIME	EUROPE	March 2000	6025 40 2759	——	SCU-2556ZRN/X1B/EW

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PIONEER CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
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PIONEER EUROPE N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 253 Alexandra Road, #04-01, Singapore 159936

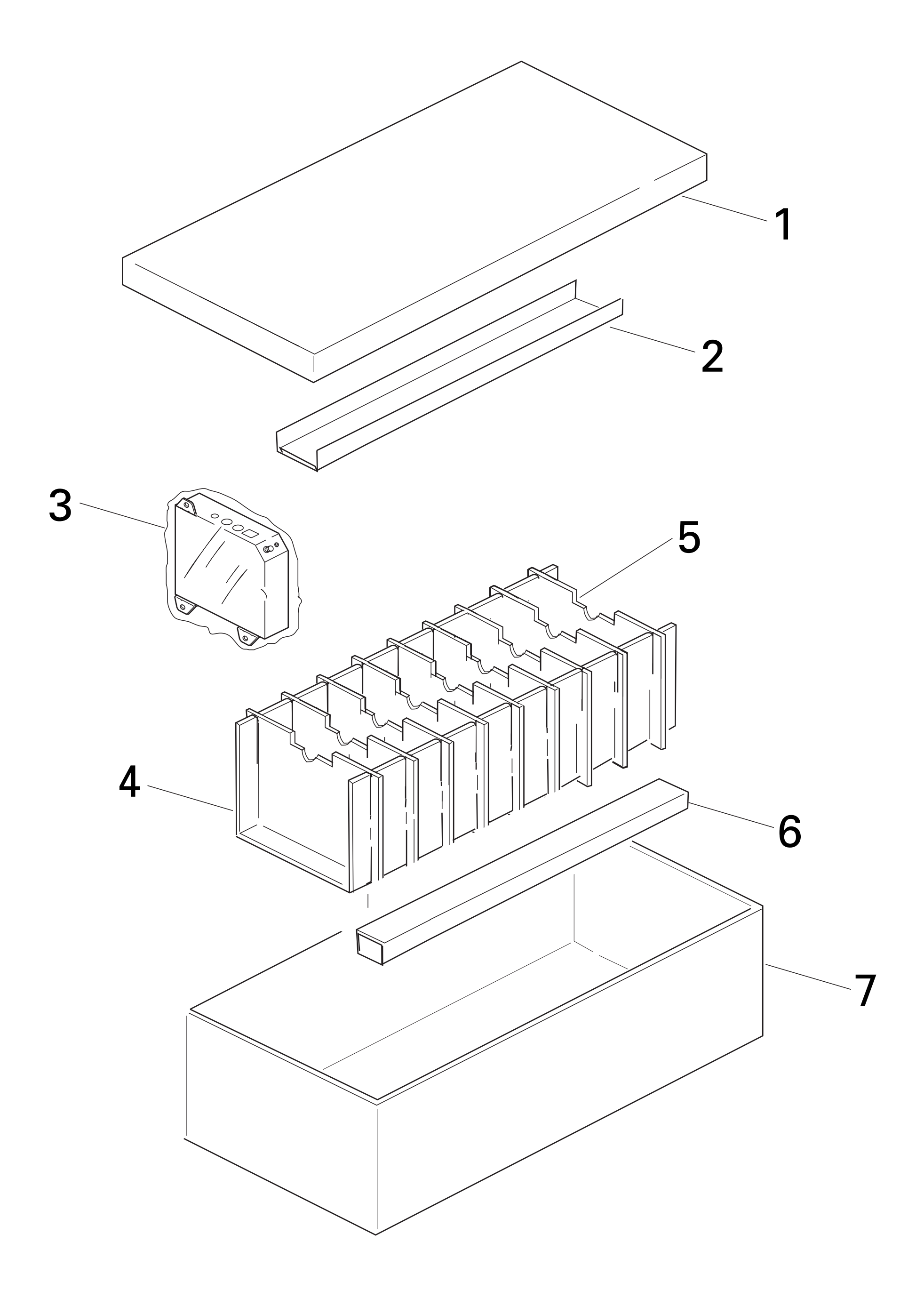
K-ZZS. FEB. 2000 Printed in Japan

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING



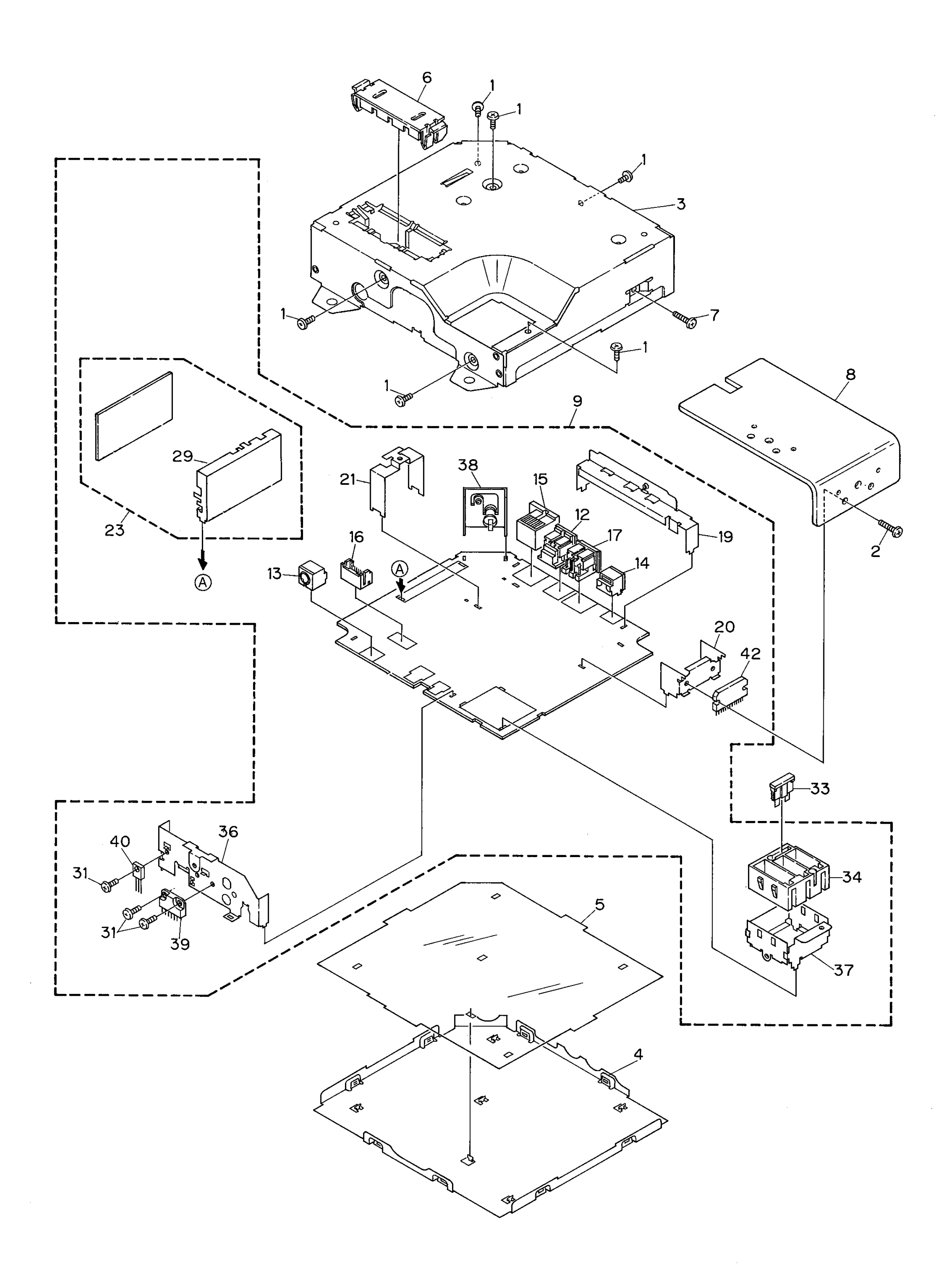
NOTE:

- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

● PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Cover	UHD-026
	2	Protector	UHP-020
	3	Polyethylene Bag	UEG-012
	4	Protector	UHP-018
	5	Protector	UHP-019
	6	Protector	UHP2266
	7	Contain Box(2456ZRN)	UHL3974
		Contain Box(2556ZRN)	UHL3975

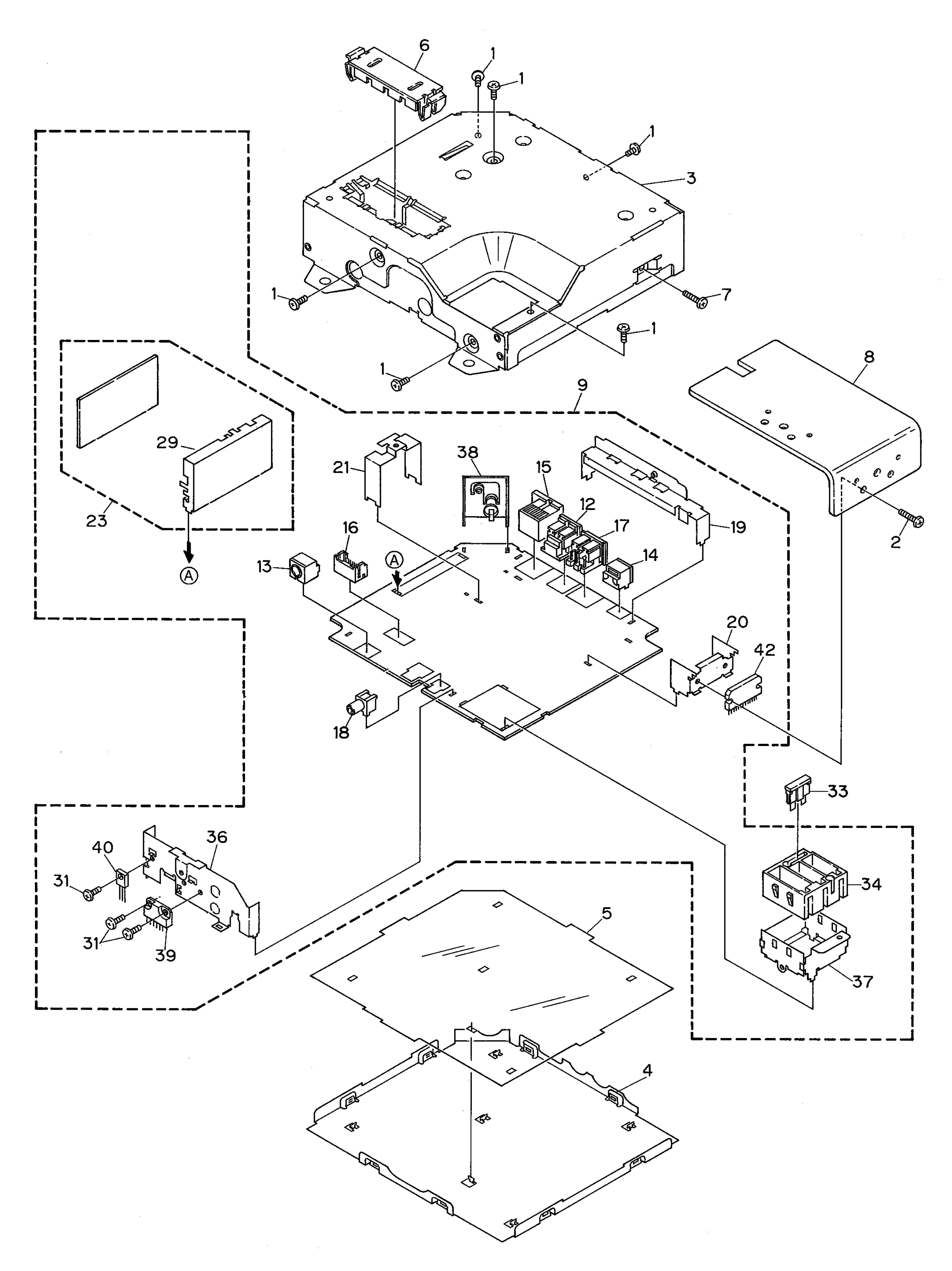
2.2 EXTERIOR(SCU-2456ZRN)



● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BMZ30P060FMC
	2	Screw	BMZ30P140FMC
	3	Chassis	CNA2288
	4	Case	CNB1780
	5	Insulator	CNM3864
	6	Cover	CNS4018
	7	Screw	BMZ30P140FMC
	8	Heat Sink	CNC7755
	9	Tuner Amp Unit	UWM6914
	10,11	•••••	
	12	Connector(CN652)	CKS3180
	13	Connector(CN852)	CKS3181
	14	Connector(CN701)	CKS3182
	15	DIN Socket(CN651)	CKS3185
	16	Connector(CN851)	CKS3186
	17	DIN Socket(CN653)	CKS3189
	18	•••••	
	19	Holder	CNC5105
	20	Holder	CNC5107
	21	Holder	CNC5433
	22	•••••	
	23	FM/AM Tuner Unit	CWE1416
	24-28	•••••	
	29	Holder	CNC6555
	30	•••••	
	31	Screw	BMZ30P060FMC
	32	•••••	
	33	Fuse(10A)	CEK1136
	34	Connector(CN551)	CKM1258
	35	•••••	
	36	Holder	CNC5106
	37	Holder	CNC5435
	38	Holder Unit(CN501)	CXA6151
	39	IC(IC901)	PA2024A
	40	Transistor(Q906)	2SA1358
	41	•••••	
	42	IC(IC551)	TDA7385

2.3 EXTERIOR(SCU-2556ZRN)

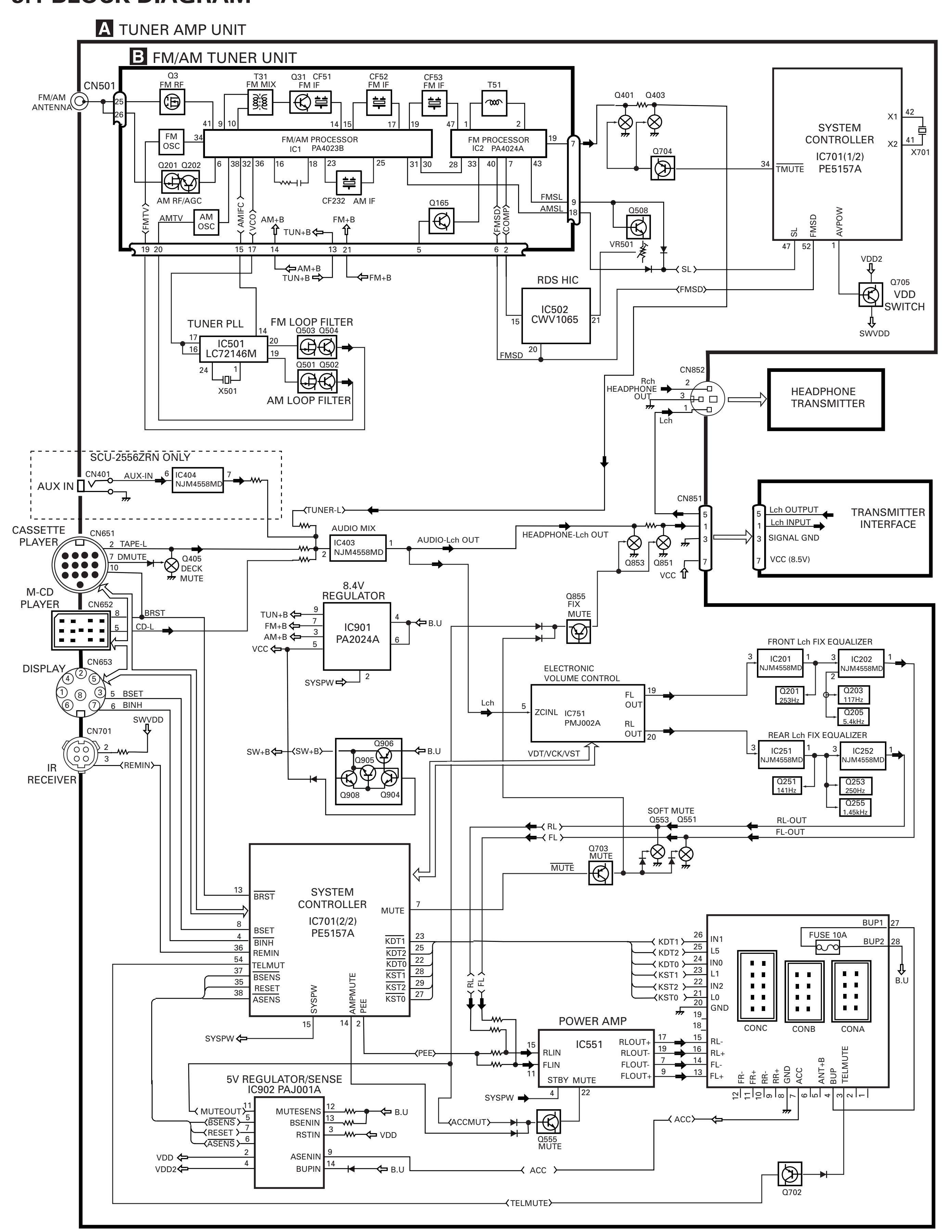


● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Screw	BMZ30P060FMC
	2	Screw	BMZ30P140FMC
	3	Chassis	CNA2289
	4	Case	CNB1780
	5	Insulator	CNM3864
	6	Cover	CNS4018
	7	Screw	BMZ30P140FMC
	8	Heat Sink	CNC7755
	9	Tuner Amp Unit	UWM6917
	10,11	•••••	
	12	Connector(CN652)	CKS3180
	13	Connector(CN852)	CKS3181
	14	Connector(CN701)	CKS3182
	15	DIN Socket(CN651)	CKS3185
	16	Connector(CN851)	CKS3186
	17	DIN Socket(CN653)	CKS3189
	18	Pin Jack(CN401)	CKS3200
	19	Holder	CNC5105
	20	Holder	CNC5107
	21	Holder	CNC5433
	22	•••••	
	23	FM/AM Tuner Unit	CWE1416
	24-28	•••••	
	29	Holder	CNC6555
	30	•••••	
	31	Screw	BMZ30P060FMC
	32	•••••	
	33	Fuse(10A)	CEK1136
	34	Connector(CN551)	CKM1258
	35	•••••	
	36	Holder	CNC5106
	37	Holder	CNC5435
	38	Holder Unit(CN501)	CXA6151
	39	IC(IC901)	PA2024A
	40	Transistor(Q906)	2SA1358
	41	•••••	
	42	IC(IC551)	PAL003A

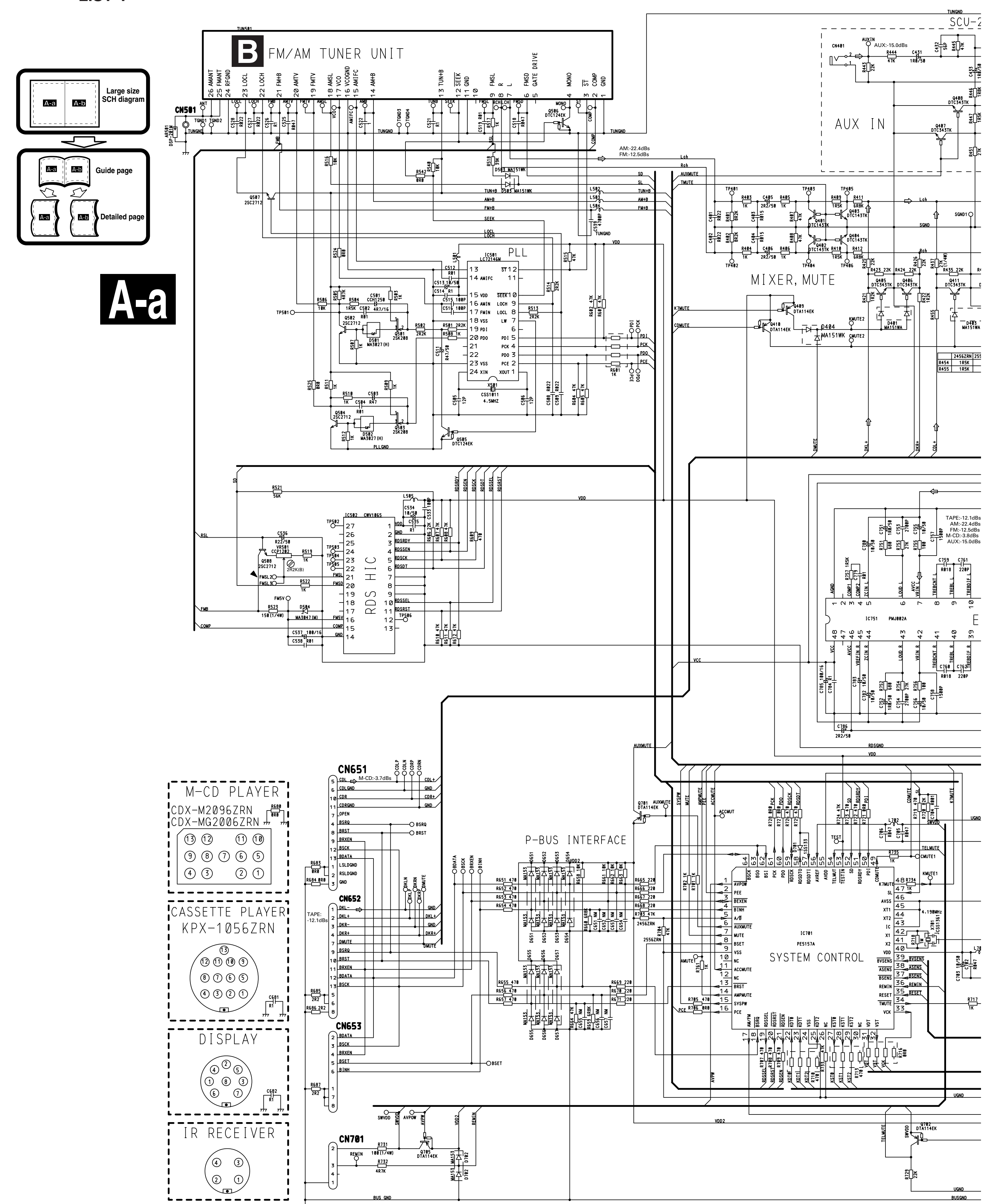
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

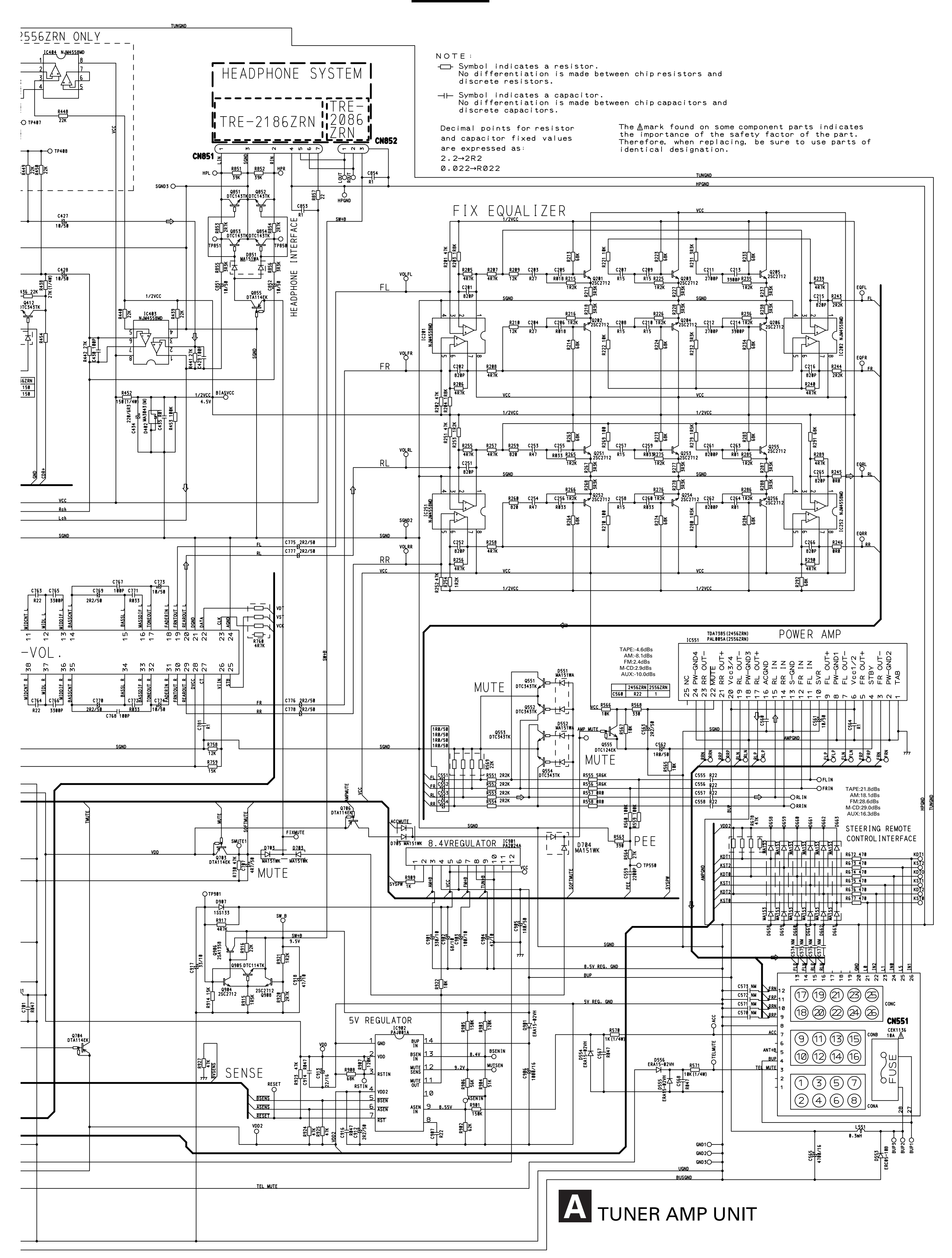


3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

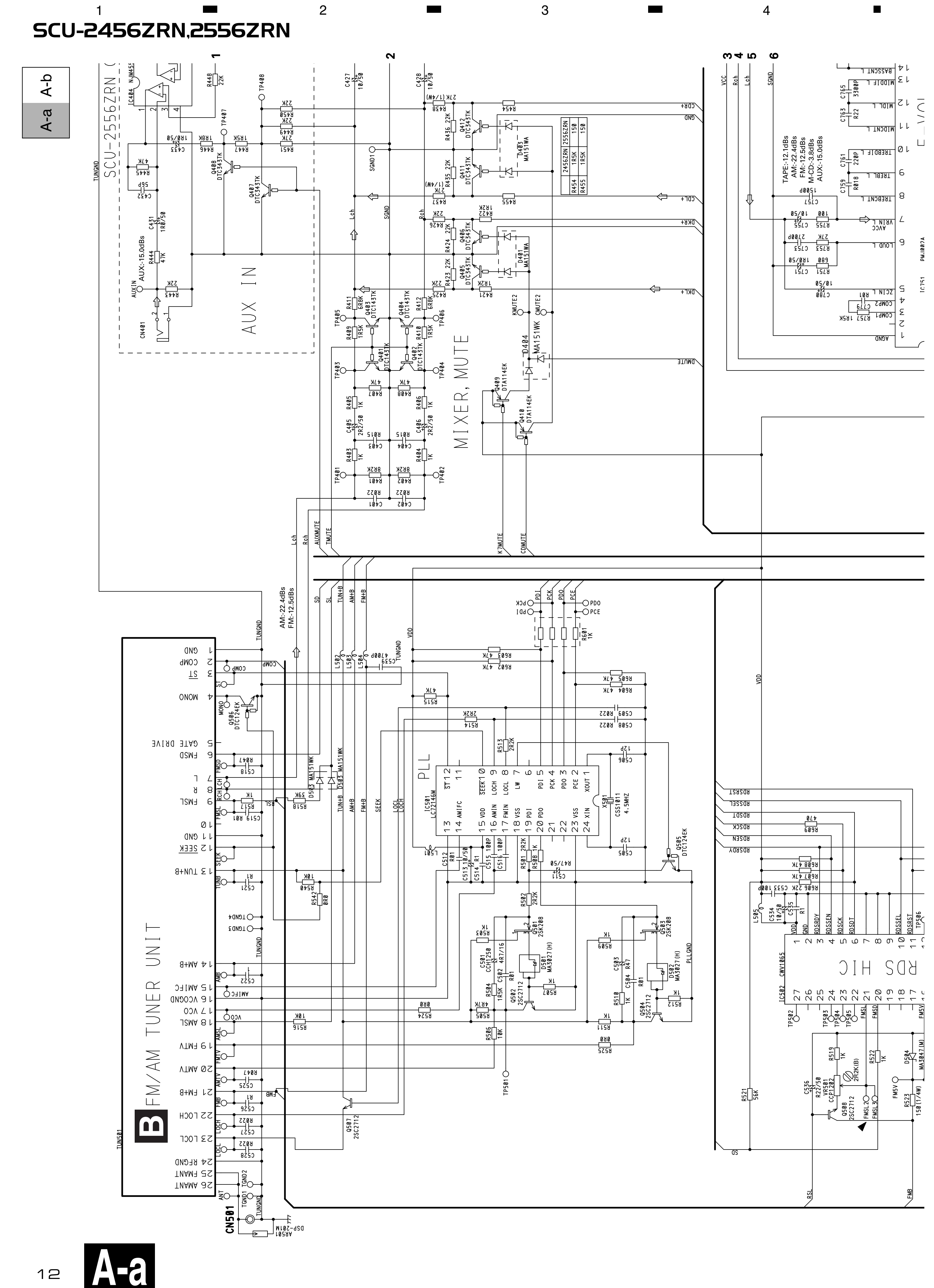
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



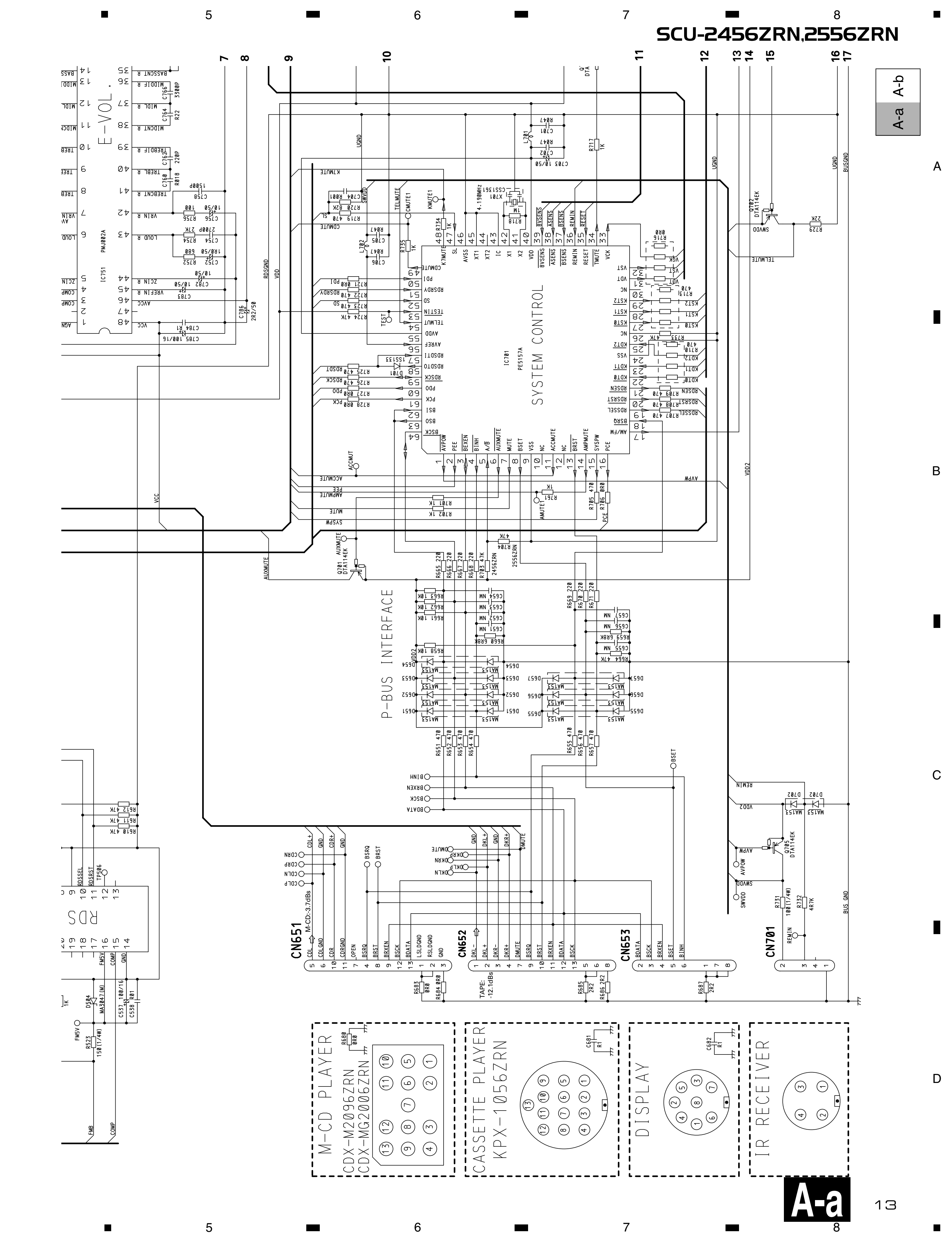
A-b

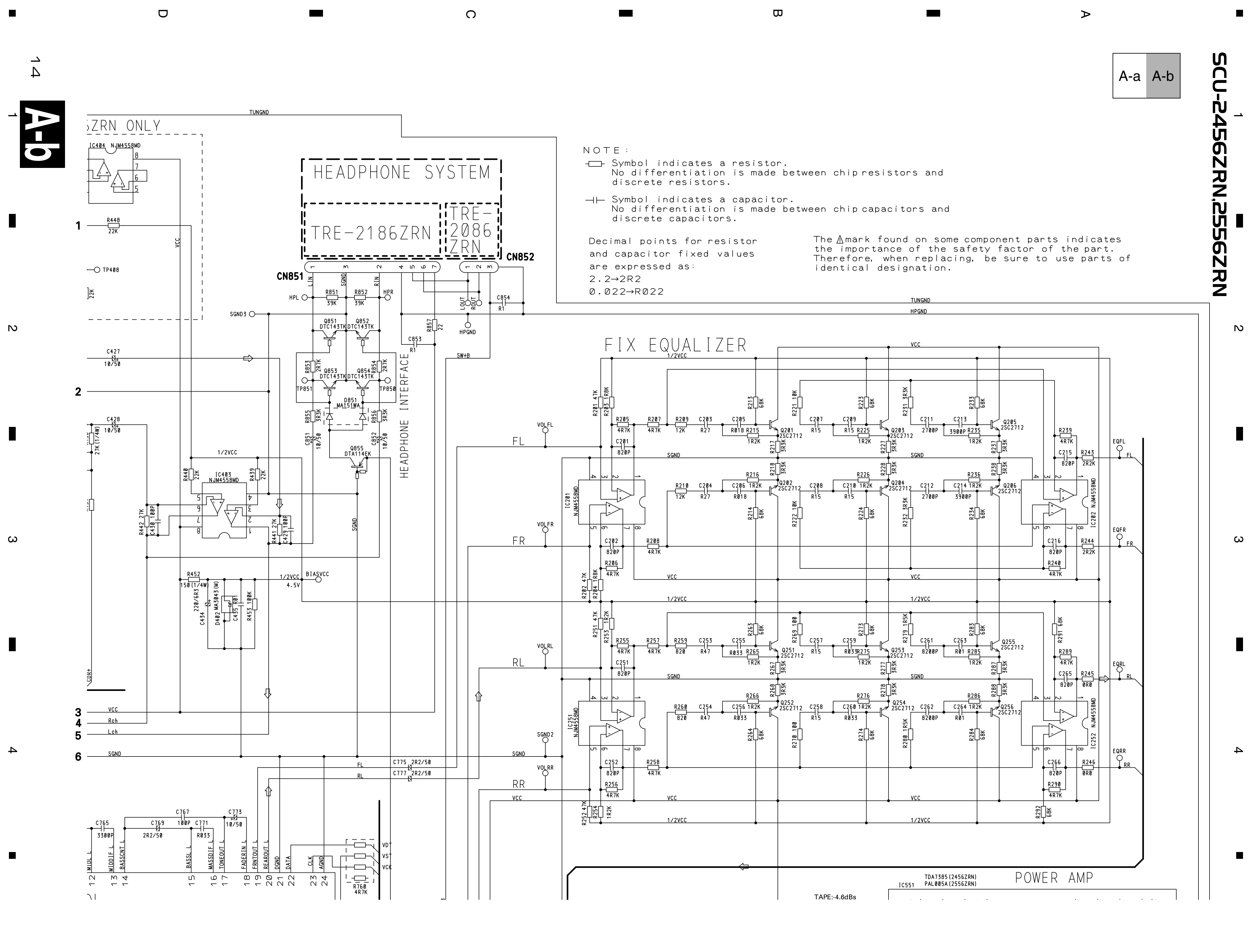


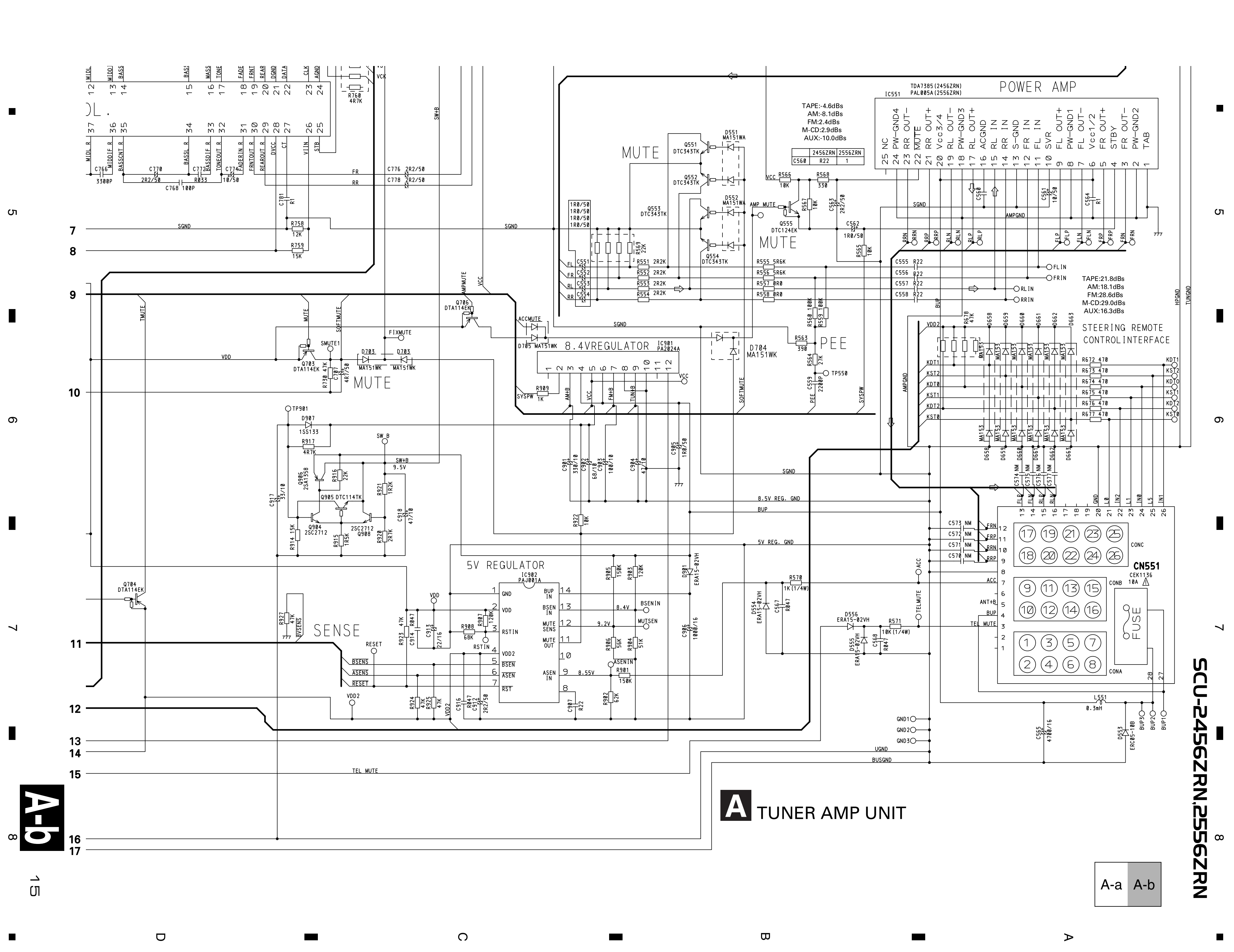
A TUNER AMP UNIT



A-a A-b
AUX IN
MIXER, MUTE
FM/AM TUNER UNIT
PLL
RDS HIC
AUX:-15.0dBs
AM:-22.4dBs
FM:-12.5dBs
TAPE:-12.1dBs
AM:-22.4dBs
FM:-12.5dBs
M-CD:-3.8dBs
AUX:-15.0dBs
CN501

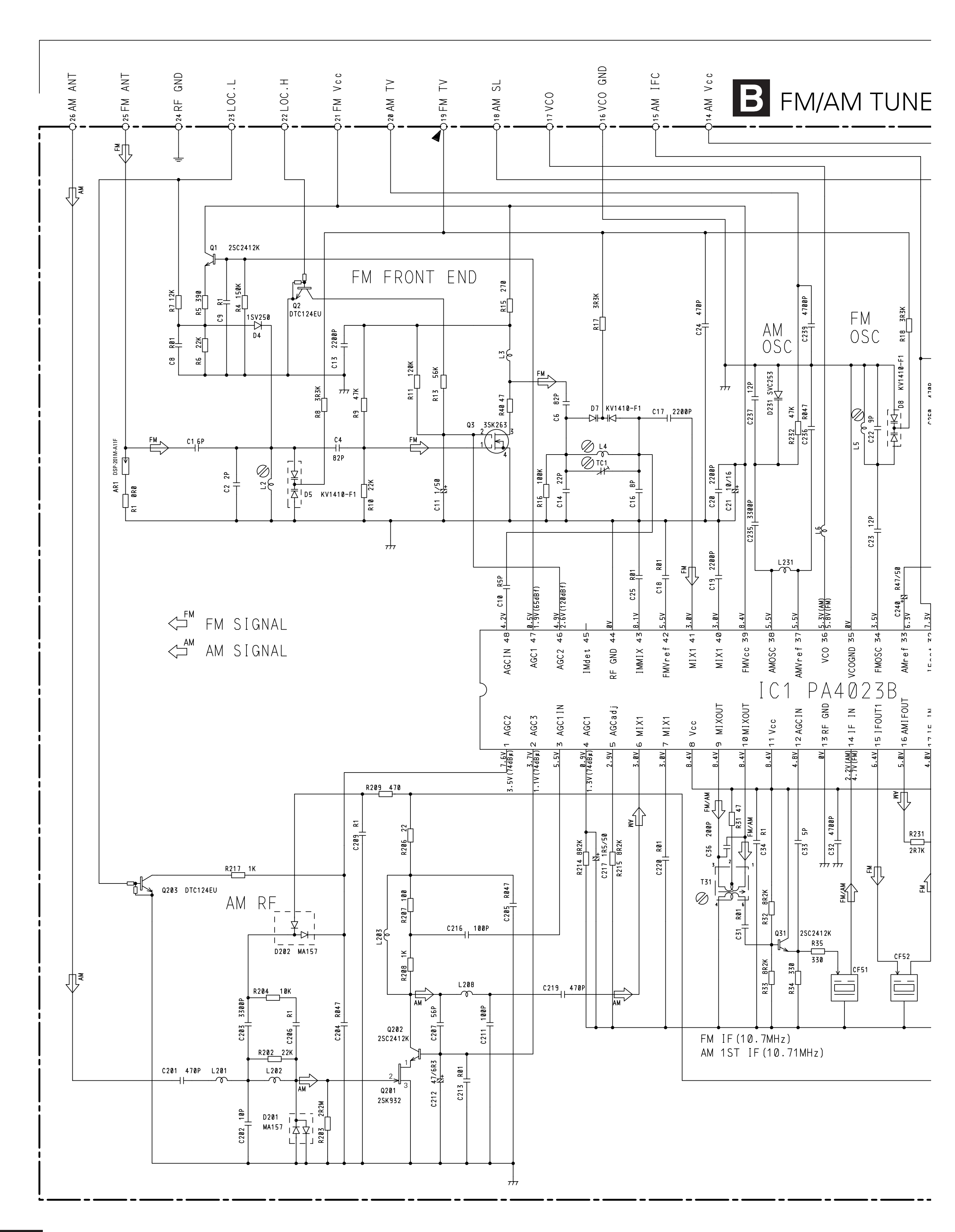

5
6
7
8
A
B
C
D
A-a
A-b
SYSTEM CONTROL
P-BUS INTERFACE
CN651
CN652
CN653
CN701
M-CD PLAYER
CDX-M2096ZRN
CDX-MG2006ZRN
CASSETTE PLAYER
KPX-1056ZRN
DISPLAY
IR RECEIVER
E-VOL.

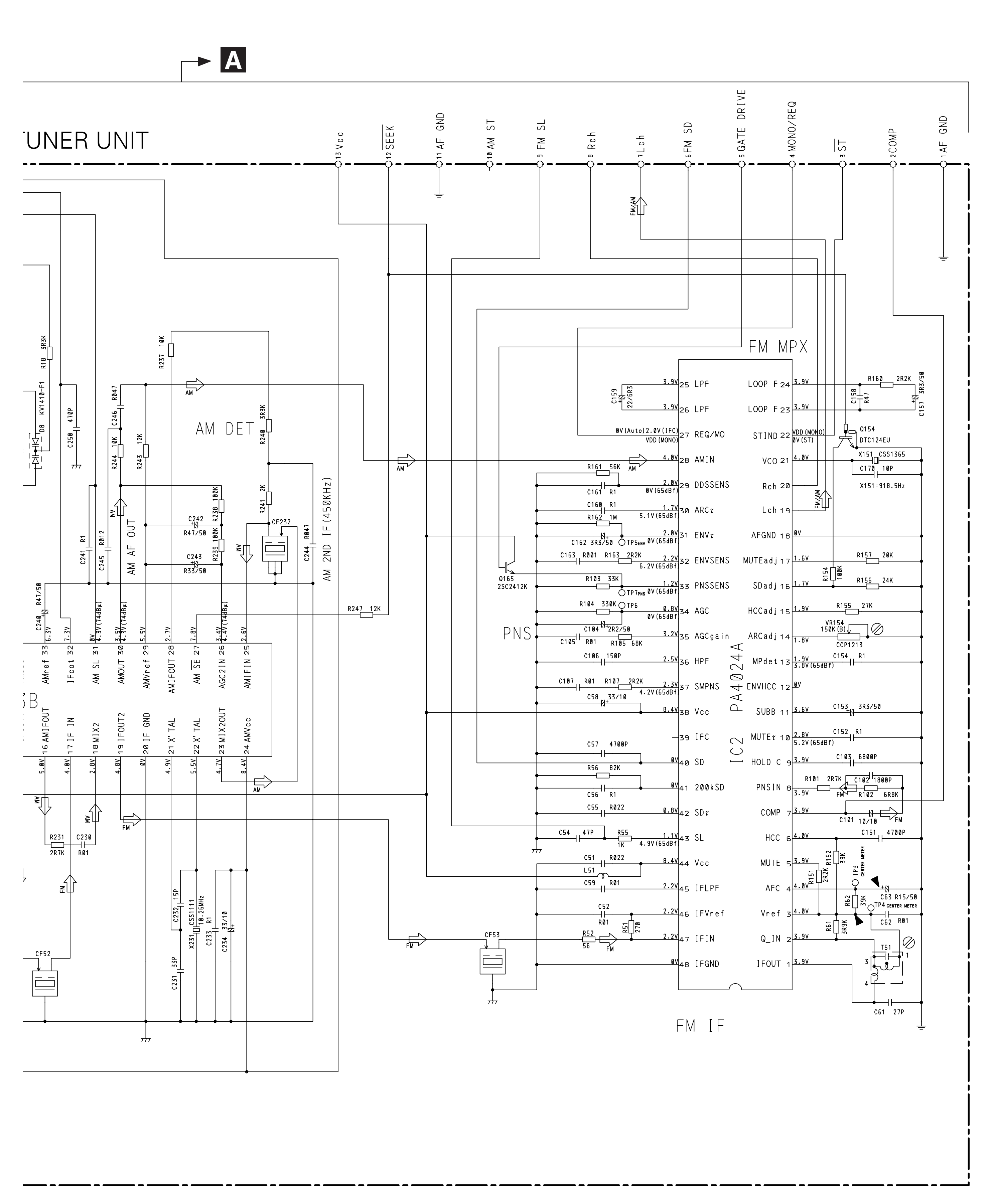

A-a
A-b
NOTE:
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022
The △mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
HEADPHONE SYSTEM
TRE-2186ZRN
TRE-2086ZRN
CN851
CN852
HEADPHONE INTERFACE
FIX EQUALIZER
POWER AMP
IC551 TDA7385(2456ZRN) PAL005A(2556ZRN)
TAPE:-4.6dBs
FL
FR
RL
RR



C560	2456ZRN	2556ZRN
	R22	1

3.3 FM/AM TUNER UNIT



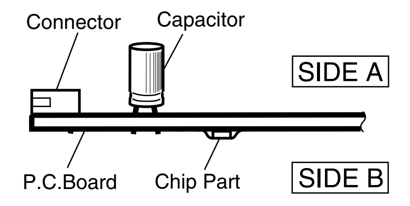

A
TUNER UNIT
13 Vcc
12 SEEK
11 AF GND
10 AM ST
9 FM SL
8 Rch
7 Lch
6 FM SD
5 GATE DRIVE
4 MONO/REQ
3 ST
2 COMP
1 AF GND
FM MPX
AM DET
AM AF OUT
AM 2ND IF(450KHz)
PNS
IC2 PA4024A
FM IF
25 LPF
26 LPF
27 REQ/MO
28 AMIN
29 DDSSENS
30 ARCr
31 ENVr
32 ENVSENS
33 PNSSENS
34 AGC
35 AGCgain
36 HPF
37 SMPNS
38 Vcc
39 IFC
40 SD
41 200kSD
42 SDr
43 SL
44 Vcc
45 IFLPF
46 IFVref
47 IFIN
48 IFGND
LOOP F 24
LOOP F 23
STIND 22
VCO 21
Rch 20
Lch 19
AFGND 18
MUTEadj 17
SDadj 16
HCCadj 15
ARCadj 14
MPdet 13
ENVHCC 12
SUBB 11
MUTEr 10
HOLD C 9
PNSIN 8
COMP 7
HCC 6
MUTE 5
AFC 4
Vref 3
Q_IN 2
IFOUT 1
AMref 33
IFcot 32
AM SL 31
AMOUT 30
AMVref 29
AMIFOUT 28
AM SE 27
AGC2IN 26
AMIFIN 25
16 AMIFOUT
17 IF IN
18 MIX2
19 IFOUT2
20 IF GND
21 X'TAL
22 X'TAL
23 MIX2OUT
24 AMVcc
Q154 DTC124EU
Q165 2SC2412K
X151 CSS1365
X151:918.5Hz
X231 CSS1111 10.26MHz
VR154 150K(B)
CCP1213
CF232
CF52
CF53
T51
TP3 CENTER METER
TP4 CENTER METER

4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

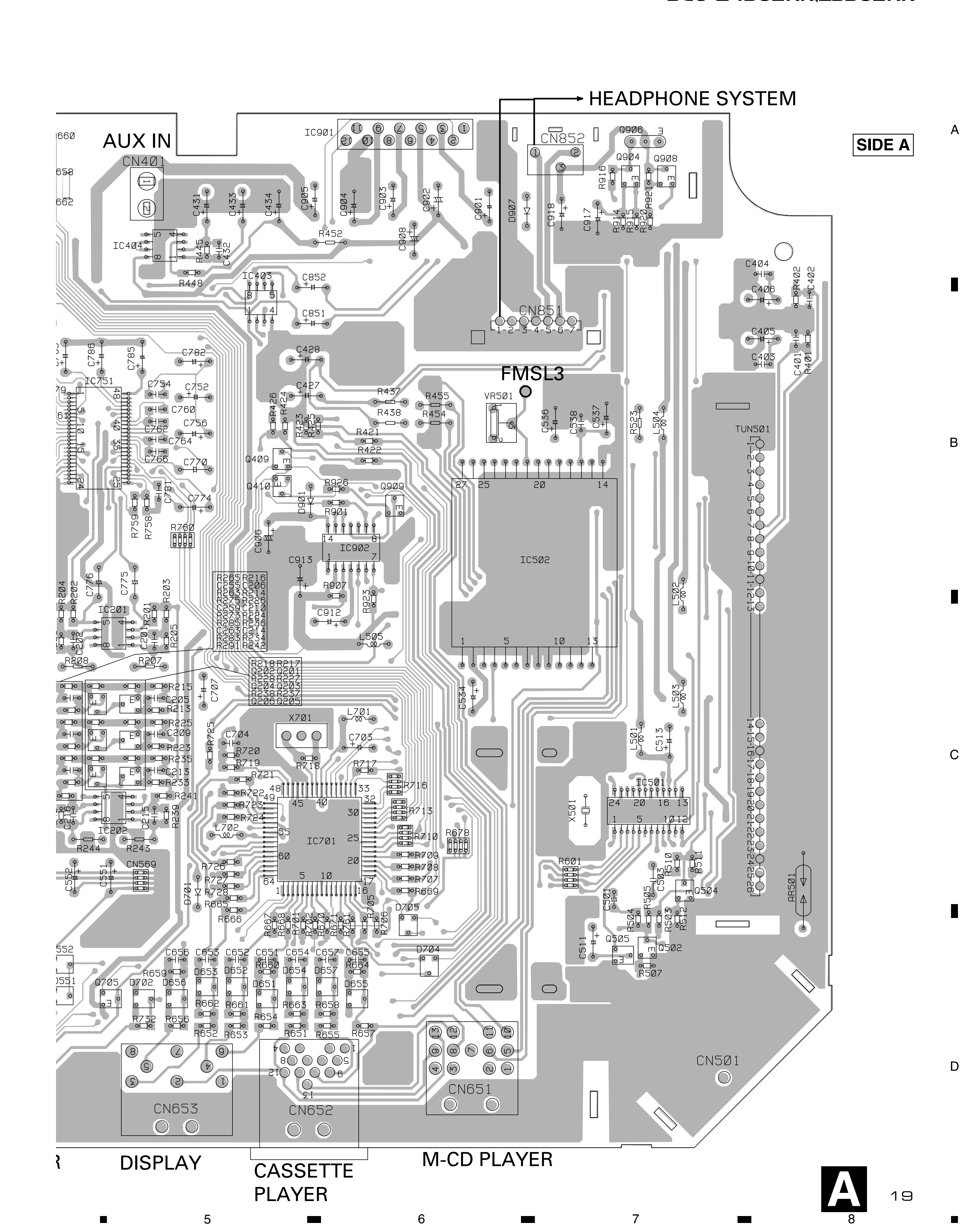
1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



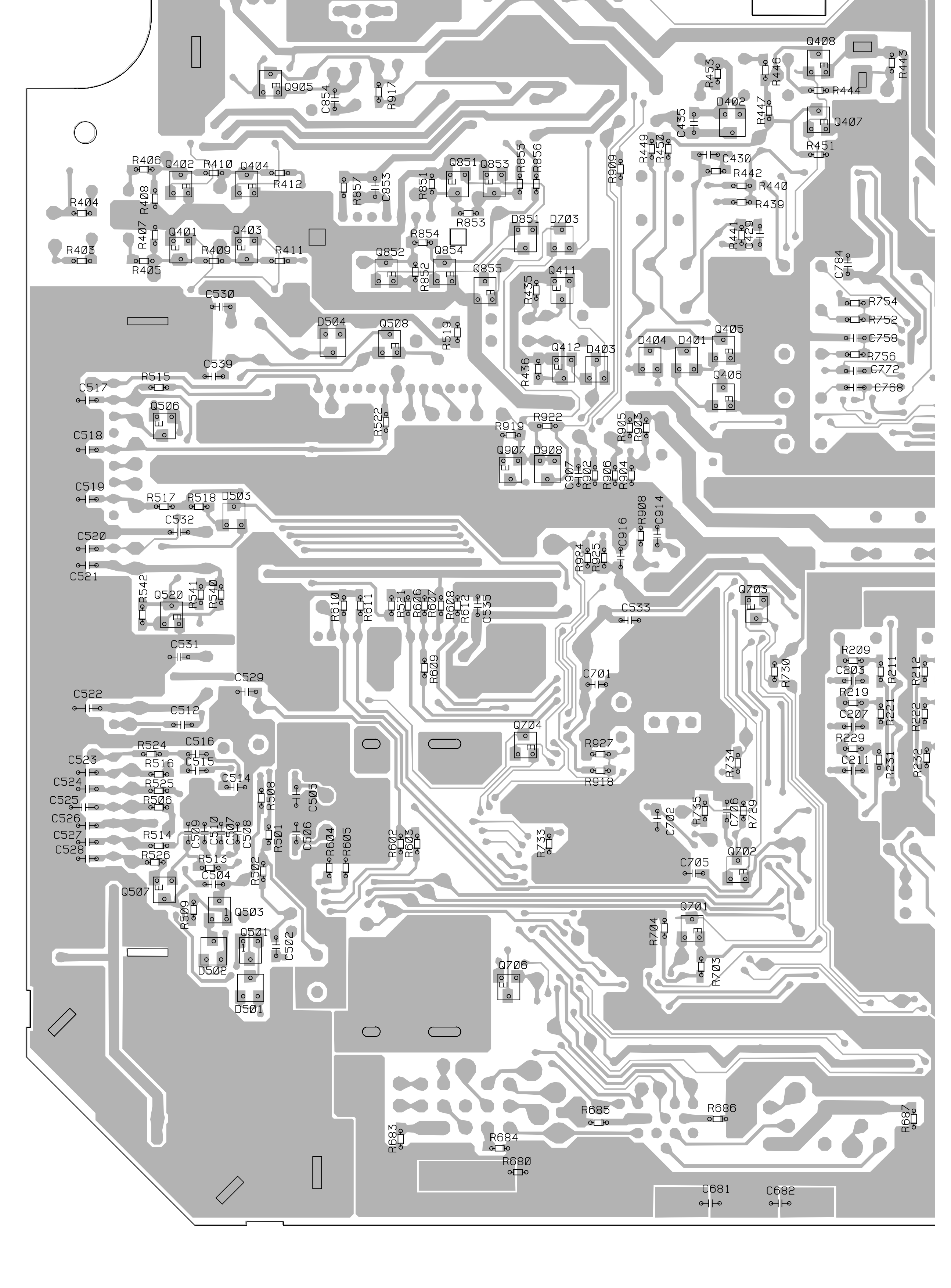
IC, Q	ADJ
IC901	
Q906	
Q904 Q908	
IC404	
IC403	
IC751	VR501
Q409	
Q410 Q909	
IC902	
Q252 Q251 IC502	
Q254 Q253	
Q256 Q255	
IC251 IC201	
Q202 Q201	
Q204 Q203	
Q206 Q205	
IC501	
IC551	
IC252 IC202	
IC701	
Q504	
Q553	
Q551 Q505	
Q502	
Q554	
Q705	
Q552	
Q555	

A TUNER AMP UNIT

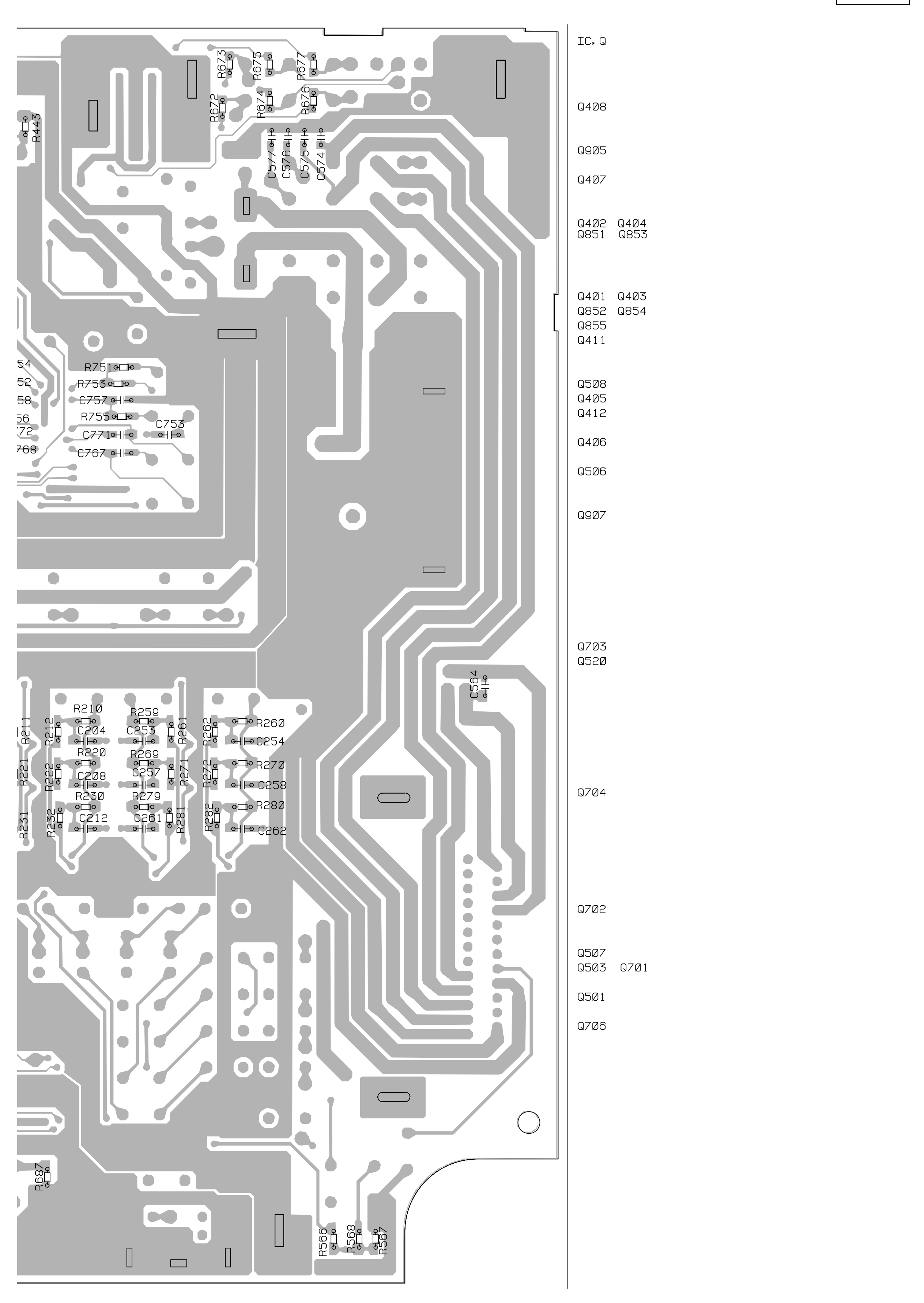
IR RECEIVER


HEADPHONE SYSTEM
SIDE A
AUX IN
CN401
CN852
CN851
FMSL3
IC502
IC701
IC501
TUN501
CN653
CN652
CN651
CN501
DISPLAY
CASSETTE
PLAYER
M-CD PLAYER
A

A TUNER AMP UNIT



SIDE B



IC,Q

Q408

Q905

Q407

Q402 Q404
Q851 Q853

Q401 Q403
Q852 Q854
Q855
Q411

Q508
Q405
Q412

Q406

Q506

Q907

Q703
Q520

Q704

Q702

Q507
Q503 Q701

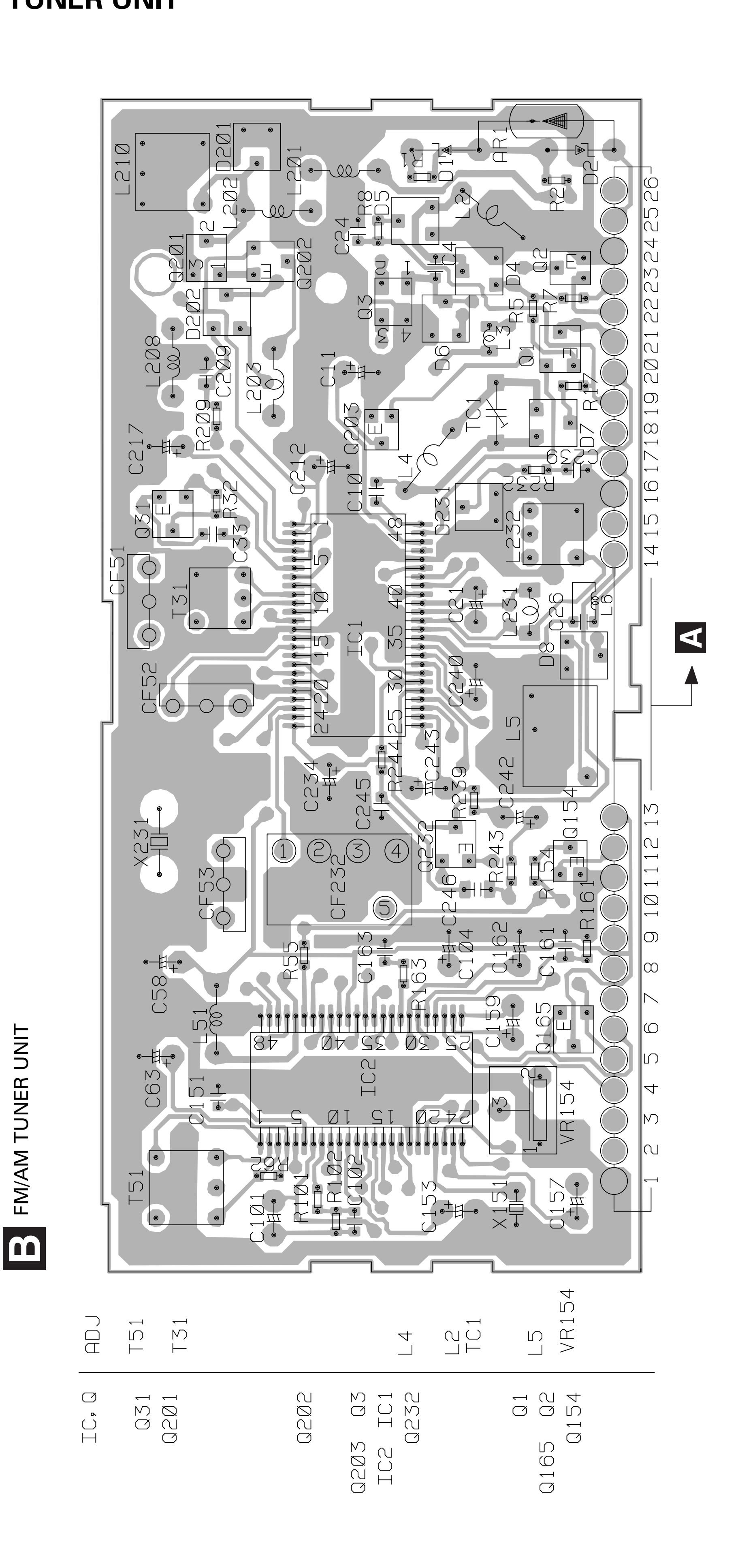
Q501

Q706

A B C D

4.2 FM/AM TUNER UNIT

SIDE A



SIDE B

B FM/AM TUNER UNIT
C201 C2 C1 C8 R6 R10 R13 C13 R9 C12 R15 R36 R11 R40 R202 R203 C202 C203 C206 R204 C213 C207 R208 R217 C204 C211 R16 C6 C7 C219 R207 C216 C14 C16 C15 R214 R34 R206 C205 C237 C17 C235 C9 R215 C35 C34 R33 C31 R35 R4 C18 C25 C220 C221 C36 R31 C19 C20 C32 C241 C236 R18 C250 R231 C230 R238 C22 C233 C37 C23 C232 C231 R247 R237 R240 R241 R242 C244 C105 C106 C54 R51 R52 C107 C51 C52 R105 R107 C55 C60 C56 R56 C59 C160 R102 R103 R104 C57 R152 C61 C62 C103 R157 R156 R155 R153 R151 R160 C158 R61 C152 C170 C154

5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol and No.===Part Name Part No.

B Unit Number : CWE1416
Unit Name : FM/AM Tuner Unit

MISCELLANEOUS

Symbol	No.	Part Name	Part No.
IC	1	IC	PA4023B
IC	2	IC	PA4024A
Q	1	Transistor	2SC2412K
Q	2	Transistor	DTC124EU
Q	3	FET	3SK263
Q	31	Transistor	2SC2412K
Q	154	Transistor	DTC124EU
Q	165	Transistor	2SC2412K
Q	201	FET	2SK932
Q	202	Transistor	2SC2412K
Q	203	Transistor	DTC124EU
D	4	Diode	1SV250
D	5	Diode	KV1410-F1
D	7	Diode	KV1410-F1
D	8	Diode	KV1410-F1
D	201	Diode	MA157
D	202	Diode	MA157
D	231	Diode	SVC253
L	2	Coil	CTC1108
L	3	Inductor	LCTB2R2K2125
L	4	Coil	CTC1108
L	5	Coil	CTC1107
L	6	Inductor	LCTBR15K1608
L	51	Ferri-Inductor	LAU150K
L	201	Ferri-Inductor	LAU4R7K
L	202	Ferri-Inductor	LAU330K
L	203	Inductor	CTF1287
L	208	Inductor	LAU121K
L	231	Inductor	LCTA3R3J3225
T	31	Coil	CTE1116
T	51	Coil	CTC1136
TC	1	Capacitor	CCL1046
CF	51	Ceramic Filter	CTF1442
CF	52	Ceramic Filter	CTF1442
CF	53	Ceramic Filter	CTF1442
CF	232	Ceramic Filter	CTF1348
X	151	Radiator 918.5Hz	CSS1365
X	231	Crystal Resonator 10.26MHz	CSS1111
VR	154	Semi-fixed 150kΩ(B)	CCP1213
AR	1		DSP-201M

RESISTORS

Symbol	No.	Part Name	Part No.
R	1		RS1/16S0R0J
R	4		RS1/16S154J
R	5		RS1/16S391J
R	6		RS1/16S223J
R	7		RS1/16S123J
R	8		RS1/16S332J
R	9		RS1/16S473J
R	10		RS1/16S223J
R	11		RS1/16S124J
R	13		RS1/16S563J
R	15		RS1/16S271J
R	16		RS1/16S104J
R	17		RS1/16S332J
R	18		RS1/16S332J
R	31		RS1/16S470J
R	32		RS1/16S822J
R	33		RS1/16S822J
R	34		RS1/16S331J
R	35		RS1/16S331J
R	40		RS1/16S470J
R	51		RS1/16S271J
R	52		RS1/16S560J
R	55		RS1/16S102J
R	56		RS1/16S823J
R	61		RS1/16S392J
R	62		RS1/16S393J
R	101		RS1/16S272J
R	102		RS1/16S682J
R	103		RS1/16S333J
R	104		RS1/16S334J
R	105		RS1/16S683J
R	107		RS1/16S222J
R	151		RS1/16S222J
R	152		RS1/16S393J
R	154		RS1/16S104J
R	155		RS1/16S273J
R	156		RS1/16S243J
R	157		RS1/16S203J
R	160		RS1/16S222J
R	161		RS1/16S563J
R	162		RS1/16S105J
R	163		RS1/16S222J
R	202		RS1/16S223J
R	203		RS1/16S225J
R	204		RS1/16S103J
R	206		RS1/16S220J
R	207		RS1/16S101J
R	208		RS1/16S102J
R	209		RS1/16S471J
R	214		RS1/16S822J
R	215		RS1/16S822J
R	217		RS1/16S102J
R	231		RS1/16S272J
R	232		RS1/16S473J
R	237		RS1/16S103J
R	238		RS1/16S104J
R	239		RS1/16S104J
R	240		RS1/16S332J
R	241		RS1/16S202J
R	243		RS1/16S123J
R	244		RS1/16S103J
R	247		RS1/16S123J

=====Circuit Symbol and No.===Part Name Part No.

CAPACITORS

Circuit Symbol	No.	Part Name	Part No.
C	1		CCSQCH6R0D50
C	2		CCSRCK2R0C50
C	4		CCSRCH820J50
C	6		CCSRCH820J50
C	8		CKSRYB103K25
C	9		CKSQYB104K16
C	10		CCSRCKR50C50
C	11		CEJA1R0M50
C	13		CKSRYB222K50
C	14		CCSRCH220J50
C	16		CCSRCH8R0D50
C	17		CKSRYB222K50
C	18		CKSRYB103K25
C	19		CKSRYB222K50
C	20		CKSRYB222K50
C	21		CEJA100M16
C	22		CCSRTH9R0D50
C	23		CCSRTH120J50
C	24		CCSRCH471J50
C	25		CKSRYB103K25
C	31		CKSRYB103K25
C	32		CKSQYB472K50
C	33		CCSRCH5R0C50
C	34		CKSQYB104K16
C	36		CCSRRH201J50
C	51		CKSRYB223K25
C	52		CKSRYB103K25
C	54		CCSRCH470J50
C	55		CKSQYB223K25
C	56		CKSQYB104K16
C	57		CKSRYB472K50
C	58		CEJA330M10
C	59		CKSRYB103K25
C	61		CCSRCH270J50
C	62		CKSRYB103K25
C	63		CEJAR15M50
C	101		CEJANP100M10
C	102		CKSRYB182K50
C	103		CKSRYB682K25
C	104		CEJA2R2M50
C	105		CKSRYB103K25
C	106		CCSRCH151J50
C	107		CKSRYB103K25
C	151		CKSRYB472K50
C	152		CKSQYB104K16
C	153		CEJA3R3M50
C	154		CKSQYB104K16
C	157		CEJA3R3M50
C	158		CKSYB474K16
C	159		CEJA220M6R3
C	160		CKSQYB104K16
C	161		CKSQYB104K16
C	162		CEJA3R3M50
C	163		CKSRYB102K50
C	170		CCSRCH100D50
C	201		CCSRCH471J50
C	202		CCSRCH100D50
C	203		CKSRYB332K50
C	204		CKSQYB473K16
C	205		CKSQYB473K16
C	206		CKSQYB104K16
C	207		CCSRCH560J50
C	209		CKSQYB104K16
C	211		CCSRCH101J50
C	212		CEJA470M6R3

=====Circuit Symbol and No.===Part Name Part No.

Circuit Symbol	No.	Part Name	Part No.
C	213		CKSRYB103K25
C	216		CCSRCH101J50
C	217		CEJA1R5M50
C	219		CCSRCH471J50
C	220		CKSRYB103K25
C	230		CKSRYB103K25
C	231		CCSRCH330J50
C	232		CCSRCH150J50
C	233		CKSQYB104K16
C	234		CEJA330M10
C	235		CKSRYB332K50
C	236		CKSQYB473K16
C	237		CCSRCH120J50
C	239		CKSRYB472K50
C	240		CEJAR47M50
C	241		CKSQYB104K16
C	242		CEJAR47M50
C	243		CEJAR33M50
C	244		CKSQYB473K16
C	245		CKSRYB123K25
C	246		CKSQYB473K16
C	250		CCSRCH471J50

A Unit Number : UWM6914(SCU-2456ZRN)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

Circuit Symbol	No.	Part Name	Part No.
IC	201	IC	NJM4558MD
IC	202	IC	NJM4558MD
IC	251	IC	NJM4558MD
IC	252	IC	NJM4558MD
IC	403	IC	NJM4558MD
IC	501	IC	LC72146M
IC	502	HIC Module	CWV1065
IC	551	IC	TDA7385
IC	701	IC	PE5157A
IC	751	IC	PMJ002A
IC	901	IC	PA2024A
IC	902	IC	PAJ001A
Q	201	Transistor	2SC2712
Q	202	Transistor	2SC2712
Q	203	Transistor	2SC2712
Q	204	Transistor	2SC2712
Q	205	Transistor	2SC2712
Q	206	Transistor	2SC2712
Q	251	Transistor	2SC2712
Q	252	Transistor	2SC2712
Q	253	Transistor	2SC2712
Q	254	Transistor	2SC2712
Q	255	Transistor	2SC2712
Q	256	Transistor	2SC2712
Q	401	Transistor	DTC143TK
Q	402	Transistor	DTC143TK
Q	403	Transistor	DTC143TK
Q	404	Transistor	DTC143TK
Q	405	Transistor	DTC343TK
Q	406	Transistor	DTC343TK
Q	409	Transistor	DTA114EK
Q	410	Transistor	DTA114EK
Q	411	Transistor	DTC343TK
Q	412	Transistor	DTC343TK
Q	501	Transistor	2SK208
Q	502	Transistor	2SC2712
Q	503	Transistor	2SK208
Q	504	Transistor	2SC2712
Q	505	Transistor	DTC124EK
Q	506	Transistor	DTC124EK

=====Circuit Symbol and No.===Part Name Part No.

Symbol	No.	Part Name	Part No.
Q	507	Transistor	2SC2712
Q	508	Transistor	2SC2712
Q	551	Transistor	DTC343TK
Q	552	Transistor	DTC343TK
Q	553	Transistor	DTC343TK
Q	554	Transistor	DTC343TK
Q	555	Transistor	DTC124EK
Q	701	Transistor	DTA114EK
Q	702	Transistor	DTA114EK
Q	703	Transistor	DTA114EK
Q	704	Transistor	DTA114EK
Q	705	Transistor	DTA114EK
Q	706	Transistor	DTA114EK
Q	851	Transistor	DTC143TK
Q	852	Transistor	DTC143TK
Q	853	Transistor	DTC143TK
Q	854	Transistor	DTC143TK
Q	855	Transistor	DTA114EK
Q	904	Transistor	2SC2712
Q	905	Transistor	DTC114TK
Q	906	Transistor	2SA1358
Q	908	Transistor	2SC2712
D	401	Chip Diode	MA151WA
D	402	Diode	MA3043(M)
D	403	Chip Diode	MA151WA
D	404	Chip Diode	MA151WK
D	501	Diode	MA3027(H)
D	502	Diode	MA3027(H)
D	503	Chip Diode	MA151WK
D	504	Diode	MA3047(M)
D	551	Chip Diode	MA151WA
D	552	Chip Diode	MA151WA
D	553	Diode	ERC05-10B
D	554	Diode	ERA15-02VH
D	555	Diode	ERA15-02VH
D	556	Diode	ERA15-02VH
D	651	Diode	MA153
D	652	Diode	MA153
D	653	Diode	MA153
D	654	Diode	MA153
D	655	Diode	MA153
D	656	Diode	MA153
D	657	Diode	MA153
D	658	Diode	MA153
D	659	Diode	MA153
D	660	Diode	MA153
D	661	Diode	MA153
D	662	Diode	MA153
D	663	Diode	MA153
D	701	Diode	1SS133
D	702	Diode	MA153
D	703	Chip Diode	MA151WK
D	704	Chip Diode	MA151WK
D	705	Chip Diode	MA151WK
D	851	Chip Diode	MA151WA
D	901	Diode	ERA15-02VH
D	907	Diode	1SS133
L	501	Inductor	LAU100K
L	502	Ferri-Inductor	LAU4R7K
L	503	Ferri-Inductor	LAU4R7K
L	504	Ferri-Inductor	LAU4R7K
L	505	Ferri-Inductor	LAU2R2K
L	551	Choke Coil 0.3mH	CTH1075
L	701	Ferri-Inductor	LAU2R2K
L	702	Ferri-Inductor	LAU2R2K
X	501	Crystal Resonator 4.5MHz	CSS1011
X	701	Ceramic Resonator 4.190MHz	CSS1361
VR	501	Semi-fixed 2.2kΩ(B)	CCP1202
AR	501		DSP-201M
		Fuse 10A	CEK1136

=====Circuit Symbol and No.===Part Name Part No.

RESISTORS

Symbol	No.	Part Name	Part No.
R	201		RS1/10S473J
R	202		RS1/10S473J
R	203		RS1/10S182J
R	204		RS1/10S182J
R	205		RS1/10S472J
R	206		RS1/10S472J
R	207		RD1/4PU472J
R	208		RD1/4PU472J
R	209		RS1/10S123J
R	210		RS1/10S123J
R	213		RS1/10S683J
R	214		RS1/10S683J
R	215		RS1/10S122J
R	216		RS1/10S122J
R	217		RS1/10S332J
R	218		RS1/10S332J
R	221		RS1/10S103J
R	222		RS1/10S103J
R	223		RS1/10S683J
R	224		RS1/10S683J
R	225		RS1/10S122J
R	226		RS1/10S122J
R	227		RS1/10S332J
R	228		RS1/10S332J
R	231		RS1/10S332J
R	232		RS1/10S332J
R	233		RS1/10S683J
R	234		RS1/10S683J
R	235		RS1/10S122J
R	236		RS1/10S122J
R	237		RS1/10S332J
R	238		RS1/10S332J
R	239		RS1/10S472J
R	240		RS1/10S472J
R	243		RD1/4PU222J
R	244		RD1/4PU222J
R	245		RD1/4PU0R0J
R	246		RD1/4PU0R0J
R	251		RS1/10S473J
R	252		RS1/10S473J
R	253		RS1/10S122J
R	254		RS1/10S122J
R	255		RS1/10S472J
R	256		RS1/10S472J
R	257		RD1/4PU472J
R	258		RD1/4PU472J
R	259		RS1/10S821J
R	260		RS1/10S821J
R	263		RS1/10S683J
R	264		RS1/10S683J
R	265		RS1/10S122J
R	266		RS1/10S122J
R	267		RS1/10S332J
R	268		RS1/10S332J
R	269		RS1/10S101J
R	270		RS1/10S101J
R	273		RS1/10S683J
R	274		RS1/10S683J
R	275		RS1/10S122J
R	276		RS1/10S122J
R	277		RS1/10S332J
R	278		RS1/10S332J
R	279		RS1/10S152J
R	280		RS1/10S152J
R	283		RS1/10S683J

=====Circuit Symbol and No.===Part Name			Part No.
R	284		RS1/10S683J
R	285		RS1/10S122J
R	286		RS1/10S122J
R	287		RS1/10S332J
R	288		RS1/10S332J
R	289		RS1/10S472J
R	290		RS1/10S472J
R	291		RS1/10S683J
R	292		RS1/10S683J
R	401		RS1/10S822J
R	402		RS1/10S822J
R	403		RS1/10S102J
R	404		RS1/10S102J
R	405		RS1/10S102J
R	406		RS1/10S102J
R	407		RS1/10S473J
R	408		RS1/10S473J
R	409		RS1/10S152J
R	410		RS1/10S152J
R	411		RS1/10S682J
R	412		RS1/10S682J
R	421		RS1/10S122J
R	422		RS1/10S122J
R	423		RS1/10S223J
R	424		RS1/10S223J
R	425		RS1/10S223J
R	426		RS1/10S223J
R	435		RS1/10S223J
R	436		RS1/10S223J
R	437		RD1/4PU273J
R	438		RD1/4PU273J
R	439		RS1/10S223J
R	440		RS1/10S223J
R	441		RS1/10S273J
R	442		RS1/10S273J
R	452		RD1/4PU151J
R	453		RS1/10S104J
R	454		RD1/4PU152J
R	455		RD1/4PU152J
R	501		RS1/10S222J
R	502		RS1/10S222J
R	503		RS1/10S102J
R	504		RS1/10S152J
R	505		RS1/10S472J
R	506		RS1/10S103J
R	507		RS1/10S102J
R	508		RS1/10S102J
R	509		RS1/10S102J
R	510		RS1/10S102J
R	511		RS1/10S102J
R	512		RS1/10S102J
R	513		RS1/10S222J
R	514		RS1/10S222J
R	515		RS1/10S473J
R	516		RS1/10S103J
R	517		RS1/10S102J
R	518		RS1/10S393J
R	519		RS1/10S102J
R	521		RS1/10S563J
R	522		RS1/10S102J
R	523		RD1/4PU151J
R	524		RS1/10S0R0J
R	525		RS1/10S0R0J
R	540		RS1/10S103J
R	542		RS1/10S0R0J
R	551		RD1/4PU222J
R	552		RD1/4PU222J
R	553		RD1/4PU222J
R	554		RD1/4PU222J
R	555		RD1/4PU562J

=====Circuit Symbol and No.===Part Name			Part No.
R	556		RD1/4PU562J
R	557		RD1/4PU0R0J
R	558		RD1/4PU0R0J
R	559		RS1/10S104J
R	560		RS1/10S104J
R	563		RS1/10S391J
R	564		RS1/10S273J
R	565		RS1/10S103J
R	566		RS1/10S103J
R	567		RS1/10S103J
R	568		RS1/10S331J
R	569		RA4C223J
R	570		RD1/4PU102J
R	571		RD1/4PU103J
R	601		RA4C102J
R	602		RS1/10S473J
R	603		RS1/10S473J
R	604		RS1/10S473J
R	605		RS1/10S473J
R	606		RS1/10S223J
R	607		RS1/10S473J
R	608		RS1/10S473J
R	609		RS1/10S471J
R	610		RS1/10S473J
R	611		RS1/10S473J
R	612		RS1/10S473J
R	651		RS1/10S471J
R	652		RS1/10S471J
R	653		RS1/10S471J
R	654		RS1/10S471J
R	655		RS1/10S471J
R	656		RS1/10S471J
R	657		RS1/10S471J
R	658		RS1/10S103J
R	659		RS1/10S682J
R	660		RS1/10S682J
R	661		RS1/10S103J
R	662		RS1/10S103J
R	663		RS1/10S103J
R	664		RS1/10S473J
R	665		RS1/10S221J
R	666		RS1/10S221J
R	667		RS1/10S221J
R	668		RS1/10S221J
R	669		RS1/10S221J
R	670		RS1/10S221J
R	671		RS1/10S221J
R	672		RS1/10S471J
R	673		RS1/10S471J
R	674		RS1/10S471J
R	675		RS1/10S471J
R	676		RS1/10S471J
R	677		RS1/10S471J
R	678		RA4C473J
R	680		RS1/10S0R0J
R	683		RS1/10S0R0J
R	684		RS1/10S0R0J
R	685		RS1/10S2R2J
R	686		RS1/10S2R2J
R	687		RS1/10S2R2J
R	701		RS1/10S102J
R	702		RS1/10S102J
R	703		RS1/10S473J
R	705		RS1/10S471J
R	706		RS1/10S0R0J
R	707		RS1/10S471J
R	708		RS1/10S471J
R	709		RS1/10S471J
R	710		RA4C471J
R	713		RA4C471J

=====Circuit Symbol and No.===Part Name			Part No.
R	716		RA4C0R0J
R	717		RS1/10S102J
R	718		RS1/10S105J
R	719		RS1/10S471J
R	720		RS1/10S823J
R	721		RS1/10S0R0J
R	722		RS1/10S471J
R	723		RS1/10S471J
R	724		RS1/10S473J
R	725		RS1/10S471J
R	726		RS1/10S471J
R	727		RS1/10S0R0J
R	728		RS1/10S0R0J
R	729		RS1/10S223J
R	730		RS1/10S473J
R	731		RD1/4PU101J
R	732		RS1/10S472J
R	733		RS1/10S473J
R	734		RS1/10S102J
R	735		RS1/10S102J
R	751		RS1/10S681J
R	752		RS1/10S681J
R	753		RS1/10S273J
R	754		RS1/10S273J
R	755		RS1/10S101J
R	756		RS1/10S101J
R	757		RS1/10S152J
R	758		RS1/10S123J
R	759		RS1/10S153J
R	760		RA4C472J
R	761		RS1/10S102J
R	851		RS1/10S393J
R	852		RS1/10S393J
R	853		RS1/10S272J
R	854		RS1/10S272J
R	855		RS1/10S332J
R	856		RS1/10S332J
R	857		RS1/10S220J
R	901		RS1/10S154J
R	902		RS1/10S623J
R	903		RS1/10S124J
R	904		RS1/10S513J
R	905		RS1/10S154J
R	906		RS1/10S563J
R	907		RS1/10S124J
R	908		RS1/10S683J
R	909		RS1/10S102J
R	914		RS1/10S153J
R	915		RS1/10S152J
R	916		RS1/10S223J
R	917		RS1/10S472J
R	920		RS1/10S272J
R	921		RS1/10S122J
R	922		RS1/10S103J
R	923		RS1/10S473J
R	924		RS1/10S473J
R	925		RS1/10S473J
R	927		RS1/10S473J

CAPACITORS

C	201		CKSQYB821K50
C	202		CKSQYB821K50
C	203		CKSQYB274K16
C	204		CKSQYB274K16
C	205		CKSQYB183K50

=====Circuit Symbol and No.===Part Name			Part No.
C	206		CKSQYB183K50
C	207		CKSQYB154K16
C	208		CKSQYB154K16
C	209		CKSQYB154K16
C	210		CKSQYB154K16
C	211		CKSQYB272K50
C	212		CKSQYB272K50
C	213		CKSQYB392K50
C	214		CKSQYB392K50
C	215		CKSQYB821K50
C	216		CKSQYB821K50
C	251		CKSQYB821K50
C	252		CKSQYB821K50
C	253		CKSQYB474K16
C	254		CKSQYB474K16
C	255		CKSQYB333K50
C	256		CKSQYB333K50
C	257		CKSQYB154K16
C	258		CKSQYB154K16
C	259		CKSQYB333K50
C	260		CKSQYB333K50
C	261		CKSQYB822K50
C	262		CKSQYB822K50
C	263		CKSQYB103K50
C	264		CKSQYB103K50
C	265		CKSQYB821K50
C	266		CKSQYB821K50
C	401		CKSQYB223K50
C	402		CKSQYB223K50
C	403		CKSQYB153K50
C	404		CKSQYB153K50
C	405		CEAT2R2M50
C	406		CEAT2R2M50
C	427		CEAT100M50
C	428		CEAT100M50
C	429		CCSQCH101J50
C	430		CCSQCH101J50
C	434		CEAT221M6R3
C	435		CKSQYB103K50
C	501	4.7μF/16V	CCH1250
C	502		CKSQYB103K50
C	503		CFTNA474J50
C	504		CKSQYB103K50
C	505		CCSQCH120J50
C	506		CCSQCH120J50
C	508		CKSQYB223K50
C	509		CKSQYB223K50
C	511		CEATR47M50
C	512		CKSQYB103K50
C	513		CEAT100M50
C	514		CKSQYB104K50
C	515		CCSQCH101J50
C	516		CCSQCH101J50
C	518		CKSQYB473K50
C	519		CKSQYB103K50
C	521		CKSQYB104K50
C	522		CKSYB105K16
C	525		CKLSR473K16
C	526		CKSQYB104K50
C	527		CKSQYB223K50
C	528		CKSQYB223K50
C	533		CCSQCH101J50
C	534		CEAT100M50
C	535		CKSQYB104K50
C	536		CEATR22M50

=====Circuit Symbol and No.===Part Name			Part No.
C	537		CEAT101M16
C	538		CKSQYB103K50
C	539		CKSQYB472K50
C	551		CEAT1R0M50
C	552		CEAT1R0M50
C	553		CEAT1R0M50
C	554		CEAT1R0M50
C	555		CFTNA224J50
C	556		CFTNA224J50
C	557		CFTNA224J50
C	558		CFTNA224J50
C	559		CKSQYB222K50
C	560		CFTNA224J50
C	561		CEAT100M50
C	562		CEAT1R0M50
C	563		CEAT2R2M50
C	564		CKSQYB104K50
C	565		CEAT472M16
C	567		CKSQYB473K50
C	568		CKSQYB473K50
C	681		CKSQYB104K50
C	682		CKSQYB104K50
C	701		CKSQYB473K50
C	702		CKSQYB473K50
C	703		CEAT100M50
C	704		CKSQYB102K50
C	705		CKSQYB473K50
C	706		CKSQYB473K50
C	707		CEAT4R7M50
C	751		CEJA1R0M50
C	752		CEJA1R0M50
C	753		CKSQYB272K50
C	754		CKSQYB272K50
C	755		CEAT100M50
C	756		CEAT100M50
C	757		CKSQYB152K50
C	758		CKSQYB152K50
C	759		CKSQYB183K50
C	760		CKSQYB183K50
C	761		CCSQCH221J50
C	762		CCSQCH221J50
C	763		CKSQYB224K16
C	764		CKSQYB224K16
C	765		CKSQYB332K50
C	766		CKSQYB332K50
C	767		CCSQCH101J50
C	768		CCSQCH101J50
C	769		CEJANP2R2M50
C	770		CEJANP2R2M50
C	771		CKSQYB333K50
C	772		CKSQYB333K50
C	773		CEAT100M50
C	774		CEAT100M50
C	775		CEJANP2R2M50
C	776		CEJANP2R2M50
C	777		CEJANP2R2M50
C	778		CEJANP2R2M50
C	779		CKSQYB103K50
C	780		CEAT100M50
C	781		CKSQYB104K50
C	782		CEAT100M50
C	783		CEAT100M50
C	784		CKSQYB104K50
C	785		CEAT101M16
C	786		CEAT2R2M50

=====Circuit Symbol and No.===Part Name			Part No.
C	851		CEAT100M50
C	852		CEAT100M50
C	853		CKSQYB104K50
C	854		CKSQYB104K50
C	901		CEAT331M10
C	902		CASA680K10
C	903		CEAT101M10
C	904		CEAT470M10
C	905		CEAT1R0M50
C	906		CEAT102M16
C	907		CKSQYB224K16
C	912		CEAT2R2M50
C	913		CSZA220M16
C	914		CKSQYB473K50
C	916		CKSQYB473K50
C	917		CEAT330M10
C	918		CEAT470M10

A Unit Number : UWM6917(SCU-2556ZRN)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC	201	IC	NJM4558MD
IC	202	IC	NJM4558MD
IC	251	IC	NJM4558MD
IC	252	IC	NJM4558MD
IC	403	IC	NJM4558MD
IC	404	IC	NJM4558MD
IC	501	IC	LC72146M
IC	502	HIC Module	CWV1065
IC	551	IC	PAL005A
IC	701	IC	PE5157A
IC	751	IC	PMJ002A
IC	901	IC	PA2024A
IC	902	IC	PAJ001A
Q	201	Transistor	2SC2712
Q	202	Transistor	2SC2712
Q	203	Transistor	2SC2712
Q	204	Transistor	2SC2712
Q	205	Transistor	2SC2712
Q	206	Transistor	2SC2712
Q	251	Transistor	2SC2712
Q	252	Transistor	2SC2712
Q	253	Transistor	2SC2712
Q	254	Transistor	2SC2712
Q	255	Transistor	2SC2712
Q	256	Transistor	2SC2712
Q	401	Transistor	DTC143TK
Q	402	Transistor	DTC143TK
Q	403	Transistor	DTC143TK
Q	404	Transistor	DTC143TK
Q	405	Transistor	DTC343TK
Q	406	Transistor	DTC343TK
Q	407	Transistor	DTC343TK
Q	408	Transistor	DTC343TK
Q	409	Transistor	DTA114EK
Q	410	Transistor	DTA114EK
Q	411	Transistor	DTC343TK
Q	412	Transistor	DTC343TK
Q	501	Transistor	2SK208
Q	502	Transistor	2SC2712
Q	503	Transistor	2SK208
Q	504	Transistor	2SC2712
Q	505	Transistor	DTC124EK
Q	506	Transistor	DTC124EK
Q	507	Transistor	2SC2712
Q	508	Transistor	2SC2712

=====Circuit Symbol and No.===Part Name			Part No.
Q	551	Transistor	DTC343TK
Q	552	Transistor	DTC343TK
Q	553	Transistor	DTC343TK
Q	554	Transistor	DTC343TK
Q	555	Transistor	DTC124EK
Q	701	Transistor	DTA114EK
Q	702	Transistor	DTA114EK
Q	703	Transistor	DTA114EK
Q	704	Transistor	DTA114EK
Q	705	Transistor	DTA114EK
Q	706	Transistor	DTA114EK
Q	851	Transistor	DTC143TK
Q	852	Transistor	DTC143TK
Q	853	Transistor	DTC143TK
Q	854	Transistor	DTC143TK
Q	855	Transistor	DTA114EK
Q	904	Transistor	2SC2712
Q	905	Transistor	DTC114TK
Q	906	Transistor	2SA1358
Q	908	Transistor	2SC2712
D	401	Chip Diode	MA151WA
D	402	Diode	MA3043(M)
D	403	Chip Diode	MA151WA
D	404	Chip Diode	MA151WK
D	501	Diode	MA3027(H)
D	502	Diode	MA3027(H)
D	503	Chip Diode	MA151WK
D	504	Diode	MA3047(M)
D	551	Chip Diode	MA151WA
D	552	Chip Diode	MA151WA
D	553	Diode	ERC05-10B
D	554	Diode	ERA15-02VH
D	555	Diode	ERA15-02VH
D	556	Diode	ERA15-02VH
D	651	Diode	MA153
D	652	Diode	MA153
D	653	Diode	MA153
D	654	Diode	MA153
D	655	Diode	MA153
D	656	Diode	MA153
D	657	Diode	MA153
D	658	Diode	MA153
D	659	Diode	MA153
D	660	Diode	MA153
D	661	Diode	MA153
D	662	Diode	MA153
D	663	Diode	MA153
D	701	Diode	1SS133
D	702	Diode	MA153
D	703	Chip Diode	MA151WK
D	704	Chip Diode	MA151WK
D	705	Chip Diode	MA151WK
D	851	Chip Diode	MA151WA
D	901	Diode	ERA15-02VH
D	907	Diode	1SS133
L	501	Inductor	LAU100K
L	502	Ferri-Inductor	LAU4R7K
L	503	Ferri-Inductor	LAU4R7K
L	504	Ferri-Inductor	LAU4R7K
L	505	Ferri-Inductor	LAU2R2K
L	551	Choke Coil 0.3mH	CTH1075
L	701	Ferri-Inductor	LAU2R2K
L	702	Ferri-Inductor	LAU2R2K
X	501	Crystal Resonator 4.5MHz	CSS1011
X	701	Ceramic Resonator 4.190MHz	CSS1361
VR	501	Semi-fixed 2.2kΩ(B)	CCP1202
AR	501		DSP-201M
		Fuse 10A	CEK1136

RESISTORS

=====Circuit Symbol and No.===Part Name			Part No.
R	201		RS1/10S473J
R	202		RS1/10S473J
R	203		RS1/10S182J
R	204		RS1/10S182J
R	205		RS1/10S472J
R	206		RS1/10S472J
R	207		RD1/4PU472J
R	208		RD1/4PU472J
R	209		RS1/10S123J
R	210		RS1/10S123J
R	213		RS1/10S683J
R	214		RS1/10S683J
R	215		RS1/10S122J
R	216		RS1/10S122J
R	217		RS1/10S332J
R	218		RS1/10S332J
R	221		RS1/10S103J
R	222		RS1/10S103J
R	223		RS1/10S683J
R	224		RS1/10S683J
R	225		RS1/10S122J
R	226		RS1/10S122J
R	227		RS1/10S332J
R	228		RS1/10S332J
R	231		RS1/10S332J
R	232		RS1/10S332J
R	233		RS1/10S683J
R	234		RS1/10S683J
R	235		RS1/10S122J
R	236		RS1/10S122J
R	237		RS1/10S332J
R	238		RS1/10S332J
R	239		RS1/10S472J
R	240		RS1/10S472J
R	243		RD1/4PU222J
R	244		RD1/4PU222J
R	245		RD1/4PU0R0J
R	246		RD1/4PU0R0J
R	251		RS1/10S473J
R	252		RS1/10S473J
R	253		RS1/10S122J
R	254		RS1/10S122J
R	255		RS1/10S472J
R	256		RS1/10S472J
R	257		RD1/4PU472J
R	258		RD1/4PU472J
R	259		RS1/10S821J
R	260		RS1/10S821J
R	263		RS1/10S683J
R	264		RS1/10S683J
R	265		RS1/10S122J
R	266		RS1/10S122J
R	267		RS1/10S332J
R	268		RS1/10S332J
R	269		RS1/10S101J
R	270		RS1/10S101J
R	273		RS1/10S683J
R	274		RS1/10S683J
R	275		RS1/10S122J
R	276		RS1/10S122J
R	277		RS1/10S332J
R	278		RS1/10S332J
R	279		RS1/10S152J
R	280		RS1/10S152J
R	283		RS1/10S683J

=====Circuit Symbol and No.===Part Name		Part No.
R	284	RS1/10S683J
R	285	RS1/10S122J
R	286	RS1/10S122J
R	287	RS1/10S332J
R	288	RS1/10S332J
R	289	RS1/10S472J
R	290	RS1/10S472J
R	291	RS1/10S683J
R	292	RS1/10S683J
R	401	RS1/10S822J
R	402	RS1/10S822J
R	403	RS1/10S102J
R	404	RS1/10S102J
R	405	RS1/10S102J
R	406	RS1/10S102J
R	407	RS1/10S473J
R	408	RS1/10S473J
R	409	RS1/10S152J
R	410	RS1/10S152J
R	411	RS1/10S682J
R	412	RS1/10S682J
R	421	RS1/10S122J
R	422	RS1/10S122J
R	423	RS1/10S223J
R	424	RS1/10S223J
R	425	RS1/10S223J
R	426	RS1/10S223J
R	435	RS1/10S223J
R	436	RS1/10S223J
R	437	RD1/4PU273J
R	438	RD1/4PU273J
R	439	RS1/10S223J
R	440	RS1/10S223J
R	441	RS1/10S273J
R	442	RS1/10S273J
R	443	RS1/10S223J
R	444	RS1/10S473J
R	445	RS1/10S473J
R	446	RS1/10S182J
R	447	RS1/10S152J
R	448	RS1/10S223J
R	449	RS1/10S223J
R	450	RS1/10S223J
R	451	RS1/10S273J
R	452	RD1/4PU151J
R	453	RS1/10S104J
R	454	RD1/4PU151J
R	455	RD1/4PU151J
R	501	RS1/10S222J
R	502	RS1/10S222J
R	503	RS1/10S102J
R	504	RS1/10S152J
R	505	RS1/10S472J
R	506	RS1/10S103J
R	507	RS1/10S102J
R	508	RS1/10S102J
R	509	RS1/10S102J
R	510	RS1/10S102J
R	511	RS1/10S102J
R	512	RS1/10S102J
R	513	RS1/10S222J
R	514	RS1/10S222J
R	515	RS1/10S473J
R	516	RS1/10S103J
R	517	RS1/10S102J
R	518	RS1/10S393J
R	519	RS1/10S102J
R	521	RS1/10S563J
R	522	RS1/10S102J
R	523	RD1/4PU151J

=====Circuit Symbol and No.===Part Name		Part No.
R	524	RS1/10S0R0J
R	525	RS1/10S0R0J
R	540	RS1/10S103J
R	542	RS1/10S0R0J
R	551	RD1/4PU222J
R	552	RD1/4PU222J
R	553	RD1/4PU222J
R	554	RD1/4PU222J
R	555	RD1/4PU562J
R	556	RD1/4PU562J
R	557	RD1/4PU0R0J
R	558	RD1/4PU0R0J
R	559	RS1/10S104J
R	560	RS1/10S104J
R	563	RS1/10S391J
R	564	RS1/10S273J
R	565	RS1/10S103J
R	566	RS1/10S103J
R	567	RS1/10S103J
R	568	RS1/10S331J
R	569	RA4C223J
R	570	RD1/4PU102J
R	571	RD1/4PU103J
R	601	RA4C102J
R	602	RS1/10S473J
R	603	RS1/10S473J
R	604	RS1/10S473J
R	605	RS1/10S473J
R	606	RS1/10S223J
R	607	RS1/10S473J
R	608	RS1/10S473J
R	609	RS1/10S471J
R	610	RS1/10S473J
R	611	RS1/10S473J
R	612	RS1/10S473J
R	651	RS1/10S471J
R	652	RS1/10S471J
R	653	RS1/10S471J
R	654	RS1/10S471J
R	655	RS1/10S471J
R	656	RS1/10S471J
R	657	RS1/10S471J
R	658	RS1/10S103J
R	659	RS1/10S682J
R	660	RS1/10S682J
R	661	RS1/10S103J
R	662	RS1/10S103J
R	663	RS1/10S103J
R	664	RS1/10S473J
R	665	RS1/10S221J
R	666	RS1/10S221J
R	667	RS1/10S221J
R	668	RS1/10S221J
R	669	RS1/10S221J
R	670	RS1/10S221J
R	671	RS1/10S221J
R	672	RS1/10S471J
R	673	RS1/10S471J
R	674	RS1/10S471J
R	675	RS1/10S471J
R	676	RS1/10S471J
R	677	RS1/10S471J
R	678	RA4C473J
R	680	RS1/10S0R0J
R	683	RS1/10S0R0J
R	684	RS1/10S0R0J
R	685	RS1/10S2R2J
R	686	RS1/10S2R2J
R	687	RS1/10S2R2J
R	701	RS1/10S102J

=====Circuit Symbol and No.		===Part Name	Part No.
R	702		RS1/10S102J
R	704		RS1/10S473J
R	705		RS1/10S471J
R	706		RS1/10S0R0J
R	707		RS1/10S471J
R	708		RS1/10S471J
R	709		RS1/10S471J
R	710		RA4C471J
R	713		RA4C471J
R	716		RA4C0R0J
R	717		RS1/10S102J
R	718		RS1/10S105J
R	719		RS1/10S471J
R	720		RS1/10S823J
R	721		RS1/10S0R0J
R	722		RS1/10S471J
R	723		RS1/10S471J
R	724		RS1/10S473J
R	725		RS1/10S471J
R	726		RS1/10S471J
R	727		RS1/10S0R0J
R	728		RS1/10S0R0J
R	729		RS1/10S223J
R	730		RS1/10S473J
R	731		RD1/4PU101J
R	732		RS1/10S472J
R	733		RS1/10S473J
R	734		RS1/10S102J
R	735		RS1/10S102J
R	751		RS1/10S681J
R	752		RS1/10S681J
R	753		RS1/10S273J
R	754		RS1/10S273J
R	755		RS1/10S101J
R	756		RS1/10S101J
R	757		RS1/10S152J
R	758		RS1/10S123J
R	759		RS1/10S153J
R	760		RA4C472J
R	761		RS1/10S102J
R	851		RS1/10S393J
R	852		RS1/10S393J
R	853		RS1/10S272J
R	854		RS1/10S272J
R	855		RS1/10S332J
R	856		RS1/10S332J
R	857		RS1/10S220J
R	901		RS1/10S154J
R	902		RS1/10S623J
R	903		RS1/10S124J
R	904		RS1/10S513J
R	905		RS1/10S154J
R	906		RS1/10S563J
R	907		RS1/10S124J
R	908		RS1/10S683J
R	909		RS1/10S102J
R	914		RS1/10S153J
R	915		RS1/10S152J
R	916		RS1/10S223J
R	917		RS1/10S472J
R	920		RS1/10S272J
R	921		RS1/10S122J
R	922		RS1/10S103J
R	923		RS1/10S473J
R	924		RS1/10S473J
R	925		RS1/10S473J
R	927		RS1/10S473J

CAPACITORS

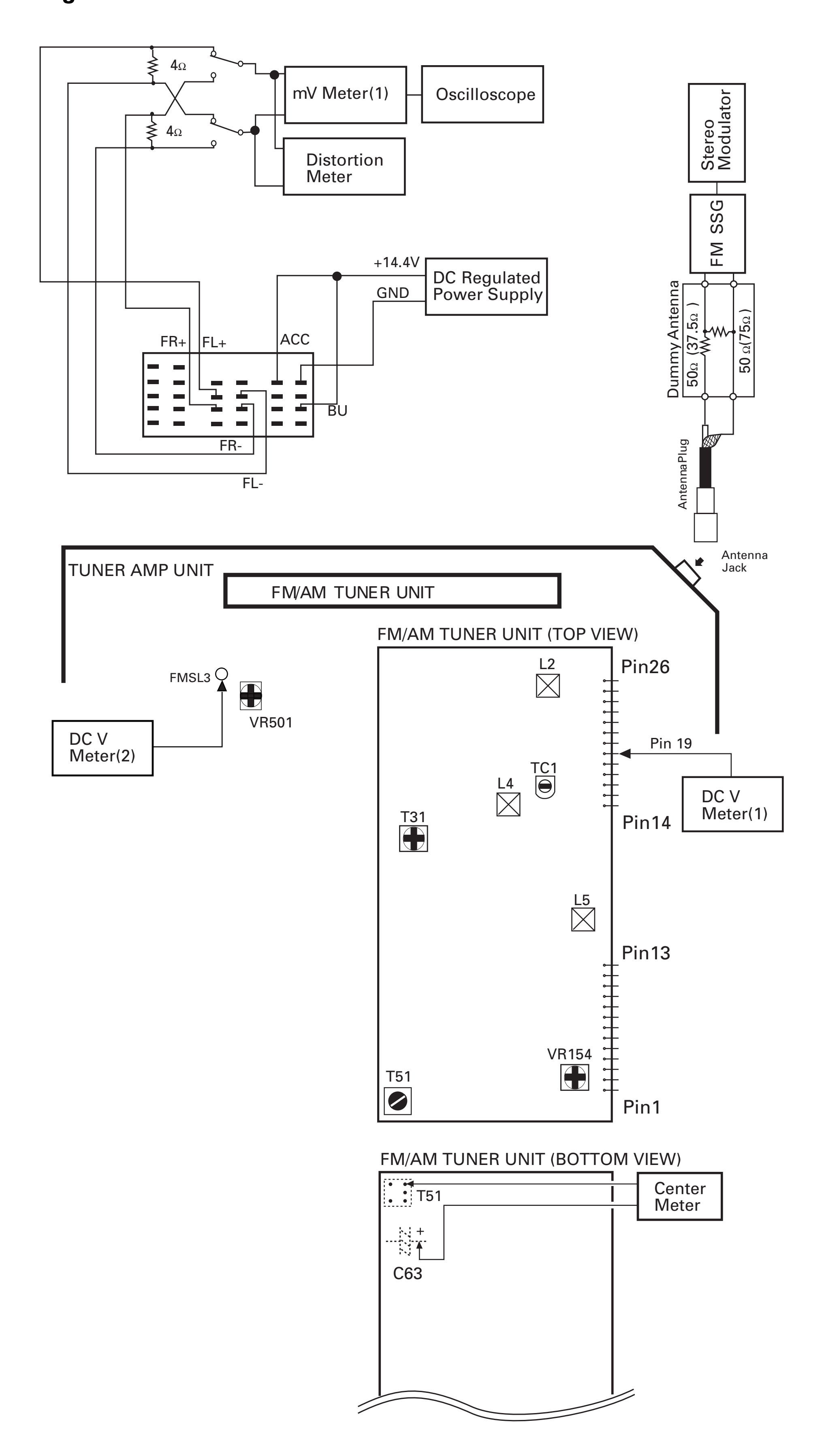
=====Circuit Symbol and No.		===Part Name	Part No.
C	201		CKSQYB821K50
C	202		CKSQYB821K50
C	203		CKSQYB274K16
C	204		CKSQYB274K16
C	205		CKSQYB183K50
C	206		CKSQYB183K50
C	207		CKSQYB154K16
C	208		CKSQYB154K16
C	209		CKSQYB154K16
C	210		CKSQYB154K16
C	211		CKSQYB272K50
C	212		CKSQYB272K50
C	213		CKSQYB392K50
C	214		CKSQYB392K50
C	215		CKSQYB821K50
C	216		CKSQYB821K50
C	251		CKSQYB821K50
C	252		CKSQYB821K50
C	253		CKSQYB474K16
C	254		CKSQYB474K16
C	255		CKSQYB333K50
C	256		CKSQYB333K50
C	257		CKSQYB154K16
C	258		CKSQYB154K16
C	259		CKSQYB333K50
C	260		CKSQYB333K50
C	261		CKSQYB822K50
C	262		CKSQYB822K50
C	263		CKSQYB103K50
C	264		CKSQYB103K50
C	265		CKSQYB821K50
C	266		CKSQYB821K50
C	401		CKSQYB223K50
C	402		CKSQYB223K50
C	403		CKSQYB153K50
C	404		CKSQYB153K50
C	405		CEAT2R2M50
C	406		CEAT2R2M50
C	427		CEAT100M50
C	428		CEAT100M50
C	429		CCSQCH101J50
C	430		CCSQCH101J50
C	431		CEAT1R0M50
C	432		CCSQCH560J50
C	433		CEAT1R0M50
C	434		CEAT221M6R3
C	435		CKSQYB103K50
C	501	4.7µF/16V	CCH1250
C	502		CKSQYB103K50
C	503		CFTNA474J50
C	504		CKSQYB103K50
C	505		CCSQCH120J50
C	506		CCSQCH120J50
C	508		CKSQYB223K50
C	509		CKSQYB223K50
C	511		CEATR47M50
C	512		CKSQYB103K50
C	513		CEAT100M50
C	514		CKSQYB104K50
C	515		CCSQCH101J50
C	516		CCSQCH101J50
C	518		CKSQYB473K50
C	519		CKSQYB103K50
C	521		CKSQYB104K50
C	522		CKSYB105K16

=====Circuit Symbol and No.===Part Name			Part No.
C	525		CKLSR473K16
C	526		CKSQYB104K50
C	527		CKSQYB223K50
C	528		CKSQYB223K50
C	533		CCSQCH101J50
C	534		CEAT100M50
C	535		CKSQYB104K50
C	536		CEATR22M50
C	537		CEAT101M16
C	538		CKSQYB103K50
C	539		CKSQYB472K50
C	551		CEAT1R0M50
C	552		CEAT1R0M50
C	553		CEAT1R0M50
C	554		CEAT1R0M50
C	555		CFTNA224J50
C	556		CFTNA224J50
C	557		CFTNA224J50
C	558		CFTNA224J50
C	559		CKSQYB222K50
C	560		CFTNA105J50
C	561		CEAT100M50
C	562		CEAT1R0M50
C	563		CEAT2R2M50
C	564		CKSQYB104K50
C	565		CEAT472M16
C	567		CKSQYB473K50
C	568		CKSQYB473K50
C	681		CKSQYB104K50
C	682		CKSQYB104K50
C	701		CKSQYB473K50
C	702		CKSQYB473K50
C	703		CEAT100M50
C	704		CKSQYB102K50
C	705		CKSQYB473K50
C	706		CKSQYB473K50
C	707		CEAT4R7M50
C	751		CEJA1R0M50
C	752		CEJA1R0M50
C	753		CKSQYB272K50
C	754		CKSQYB272K50
C	755		CEAT100M50
C	756		CEAT100M50
C	757		CKSQYB152K50
C	758		CKSQYB152K50
C	759		CKSQYB183K50
C	760		CKSQYB183K50
C	761		CCSQCH221J50
C	762		CCSQCH221J50
C	763		CKSQYB224K16
C	764		CKSQYB224K16
C	765		CKSQYB332K50
C	766		CKSQYB332K50
C	767		CCSQCH101J50
C	768		CCSQCH101J50
C	769		CEJANP2R2M50
C	770		CEJANP2R2M50
C	771		CKSQYB333K50
C	772		CKSQYB333K50
C	773		CEAT100M50
C	774		CEAT100M50
C	775		CEJANP2R2M50
C	776		CEJANP2R2M50
C	777		CEJANP2R2M50
C	778		CEJANP2R2M50
C	779		CKSQYB103K50
C	780		CEAT100M50
C	781		CKSQYB104K50
C	782		CEAT100M50
C	783		CEAT100M50

=====Circuit Symbol and No.===Part Name			Part No.
C	784		CKSQYB104K50
C	785		CEAT101M16
C	786		CEAT2R2M50
C	851		CEAT100M50
C	852		CEAT100M50
C	853		CKSQYB104K50
C	854		CKSQYB104K50
C	901		CEAT331M10
C	902		CASA680K10
C	903		CEAT101M10
C	904		CEAT470M10
C	905		CEAT1R0M50
C	906		CEAT102M16
C	907		CKSQYB224K16
C	912		CEAT2R2M50
C	913		CSZA220M16
C	914		CKSQYB473K50
C	916		CKSQYB473K50
C	917		CEAT330M10
C	918		CEAT470M10

6. ADJUSTMENT

● Connection Diagram



FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.) or 400Hz 100%(75kHz Dev.)
S:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG Frequency(MHz)	FM SSG Level(dBf)	Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
TUN Volt	1	•••••	•••••	108.0	L5	DC V Meter(1) : 6V
IF	2	98.1 M	60—100	98.1	T51	Center Meter : 0
ANT Coil	3	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	4	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
RF Trimmer	5	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
	6	RF Coil and RF Trimmer shall be adjusted twice or more				
IFT	7	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	8	98.1 S	40	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

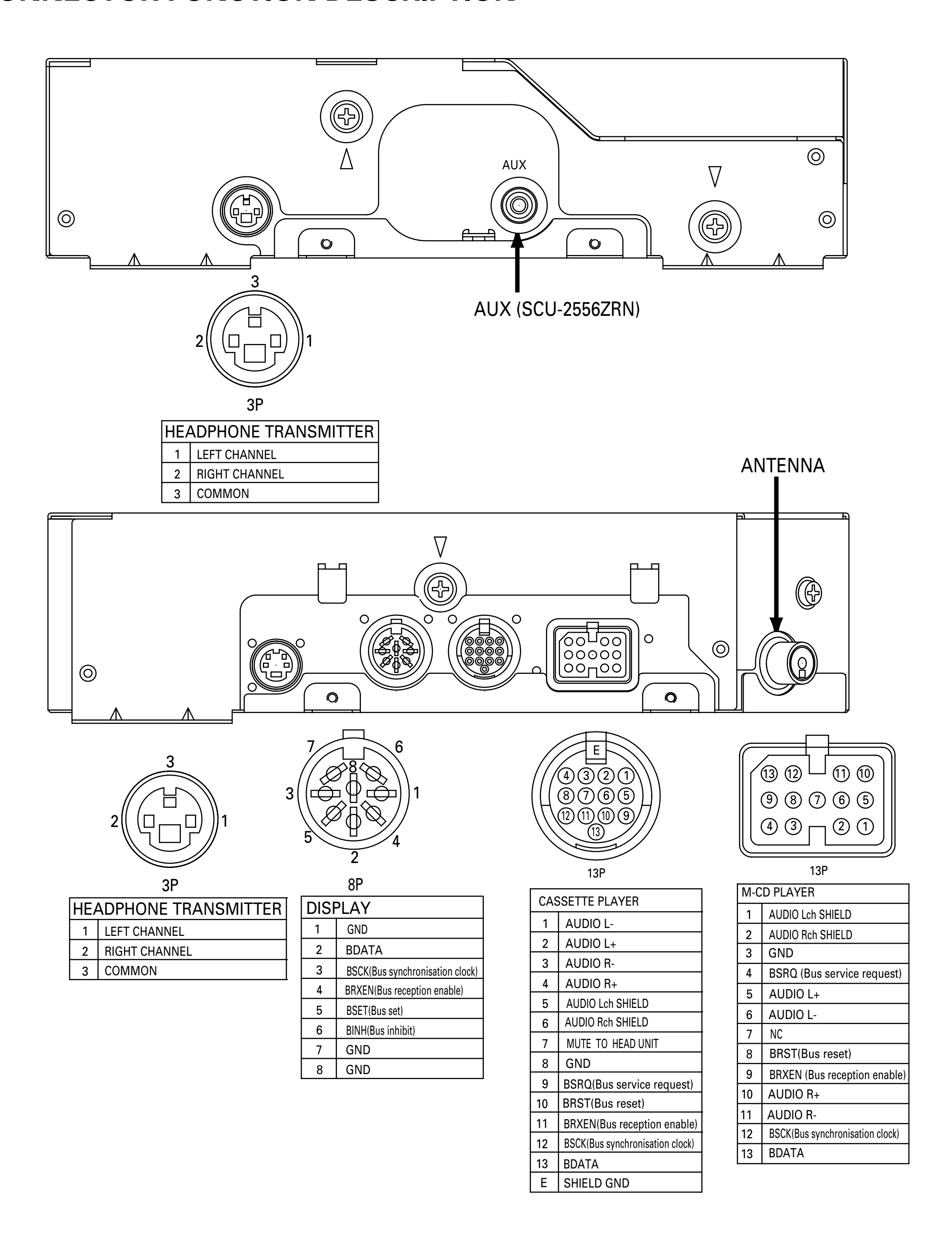
FMSL ADJUSTMENT

Modulation MONO MOD., 400Hz 100%(75kHz Dev.)

	No.	FM SSG Frequency(MHz)	FM SSG Level(dBf)	Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
FMSL	1	98.1 M	25	98.1	VR501	DC V Meter(2) : 1.25V±0.05V

7. GENERAL INFORMATION

7.1 CONNECTOR FUNCTION DESCRIPTION



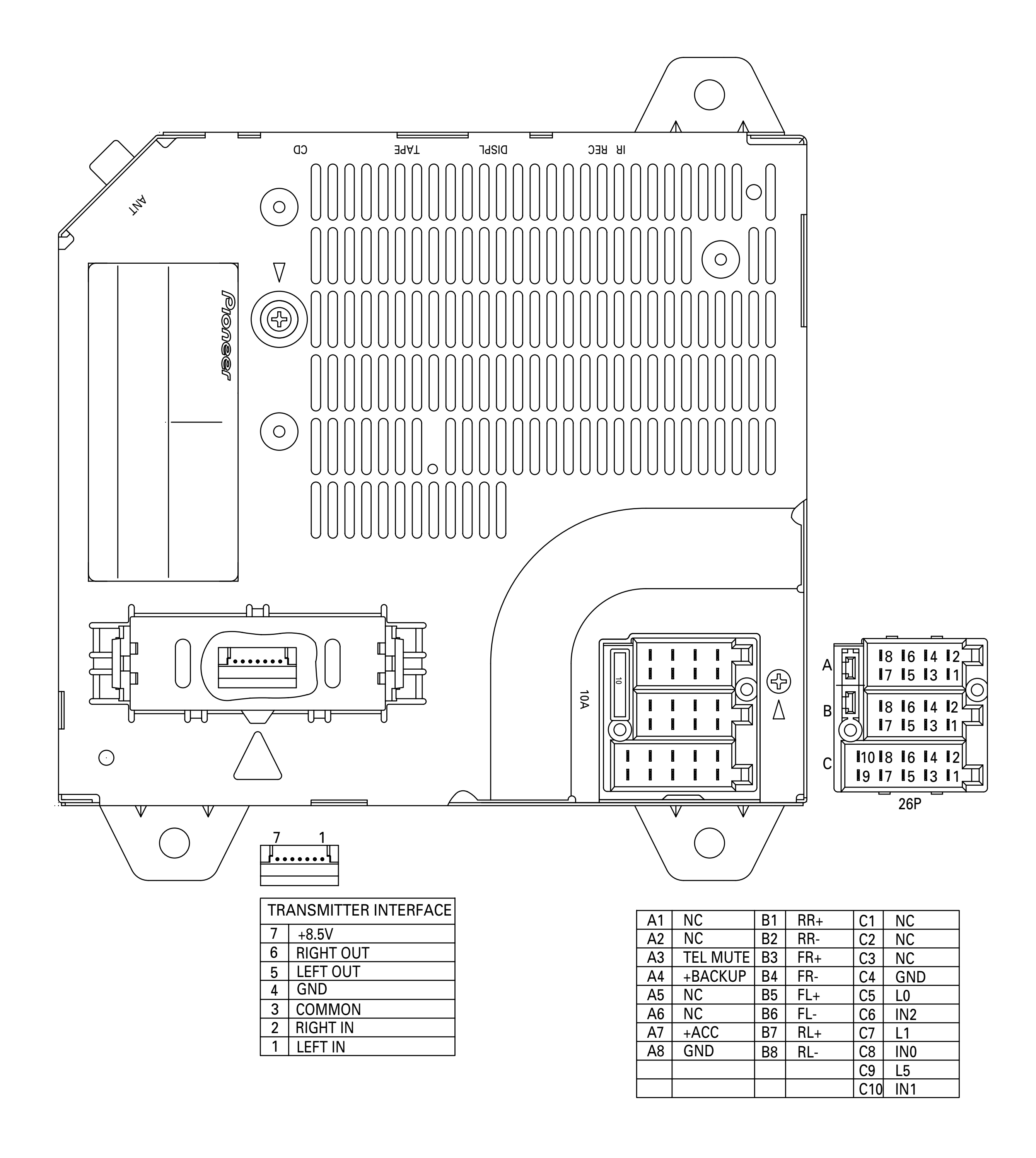
HEADPHONE TRANSMITTER	
1	LEFT CHANNEL
2	RIGHT CHANNEL
3	COMMON

HEADPHONE TRANSMITTER	
1	LEFT CHANNEL
2	RIGHT CHANNEL
3	COMMON

DISPLAY	
1	GND
2	BDATA
3	BSCK(Bus synchronisation clock)
4	BRXEN(Bus reception enable)
5	BSET(Bus set)
6	BINH(Bus inhibit)
7	GND
8	GND

CASSETTE PLAYER	
1	AUDIO L-
2	AUDIO L+
3	AUDIO R-
4	AUDIO R+
5	AUDIO Lch SHIELD
6	AUDIO Rch SHIELD
7	MUTE TO HEAD UNIT
8	GND
9	BSRQ(Bus service request)
10	BRST(Bus reset)
11	BRXEN(Bus reception enable)
12	BSCK(Bus synchronisation clock)
13	BDATA
E	SHIELD GND

M-CD PLAYER	
1	AUDIO Lch SHIELD
2	AUDIO Rch SHIELD
3	GND
4	BSRQ (Bus service request)
5	AUDIO L+
6	AUDIO L-
7	NC
8	BRST(Bus reset)
9	BRXEN (Bus reception enable)
10	AUDIO R+
11	AUDIO R-
12	BSCK(Bus synchronisation clock)
13	BDATA



TRANSMITTER INTERFACE	
7	+8.5V
6	RIGHT OUT
5	LEFT OUT
4	GND
3	COMMON
2	RIGHT IN
1	LEFT IN

A1	NC	B1	RR+	C1	NC
A2	NC	B2	RR-	C2	NC
A3	TEL MUTE	B3	FR+	C3	NC
A4	+BACKUP	B4	FR-	C4	GND
A5	NC	B5	FL+	C5	L0
A6	NC	B6	FL-	C6	IN2
A7	+ACC	B7	RL+	C7	L1
A8	GND	B8	RL-	C8	IN0
				C9	L5
				C10	IN1

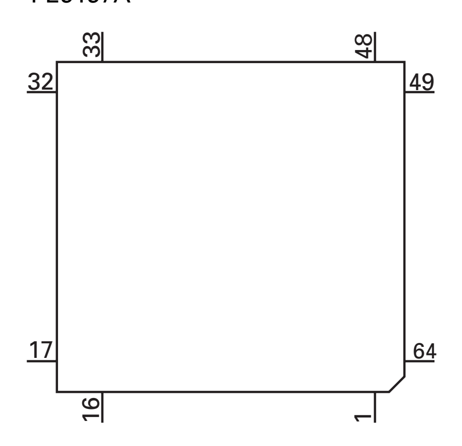
7.2 IC

● Pin Functions(PE5157A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	AVPOW	O	C	A Vref watching terminal
2	PEE	O	C	Beep tone output
3	BRXEN	I/O	C	Communication reception enable input/output
4	BINH	O	C	Communication data input inhibit
5	A/B	I		Model select
6	AUXMUTE	O	C	AUX mute
7	MUTE	O	C	Synthesis mute output
8	BSET	O	C	BUS communication reset output
9	VSS			GND
10	NC			Not used
11	ACCMUTE	O	C	ACC ON mute
12	NC			Not used
13	BRST	O	C	Reset output
14	AMPMUTE	O	C	Amp Mute output
15	SYSPW	O	C	System power supply control output
16	PCE	O	C	Chip enable output for PLL IC
17	AM/FM	O	C	AM/FM select output
18	BSRQ	I		Communication request input
19	RDSSEL	O	C	Select output for RDS IC
20	RDSRST	O	C	Reset output for RDS IC
21	RDSEN	O	C	Enable output for RDS IC
22,23	KDT0,1	I		Key data 0,1
24	VSS			GND
25	KDT2	I		Key data 2
26	NC			Connect to GND
27-29	KST0-2	O	C	Key strobe 0-2
30	NC			Not used
31	VDT	O	C	Data output for electronic volume
32	VST	O	C	Strobe pulse output for electronic volume
33	VCK	O	C	Clock output for electronic volume
34	TMUTE	O	C	Tuner mute output
35	RESET	I		Reset input
36	REMIN	I		Remote control pulse input
37	BSENS	I		Back up power sense input
38	ASENS	I		ACC power sense input
39	8VSENS	I		8V sense input
40	VDD			Power supply
41	X2			Crystal oscillator connection pin
42	X1			Crystal oscillator connection pin
43	IC			Connect to GND
44	XT2			Not used
45	XT1			Connect to GND
46	AVSS	I		A/D GND
47	SL	I		Tuner SD level detector input
48	K7MUTE	O		Mute control output for cassette
49	CDMUTE	O		Mute control output for CD
50	PDI	I		Data input from PLL IC
51	RDSRDY	I		Ready input from RDS IC
52	SD	I		SD input
53	TESTIN	I		Test program mode input
54	TELMUT	I		Telephone mute signal input
55	AVDD			Positive power supply terminal for analog circuit
56	AVREF	I		Reference voltage
57	RDSDTI	I		Serial data input for RDS IC
58	RDSDTO	O		Serial data output for RDS IC
59	RDSCK	I/O	C	Serial clock output for RDS IC
60	PDO	O	C	Data output for PLL IC

Pin No.	Pin Name	I/O	Format	Function and Operation
61	PCK	O	C	Serial clock output for PLL IC
62	BSI	I		Communication data input
63	BSO	O	C	Communication data output
64	$\overline{\text{BSCK}}$	I/O	C	Communication serial clock input/output

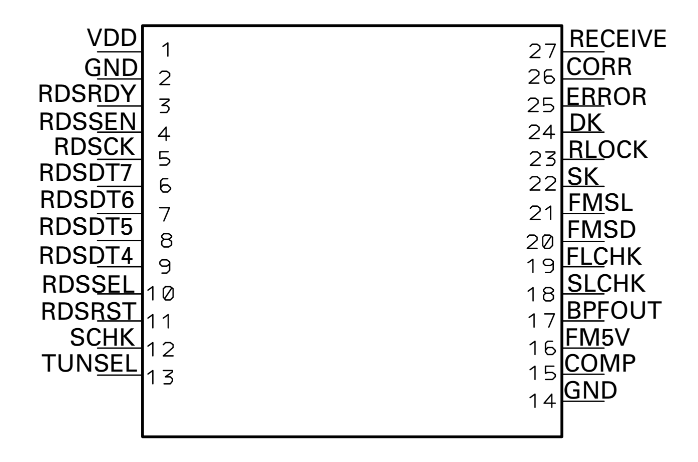
*PE5157A



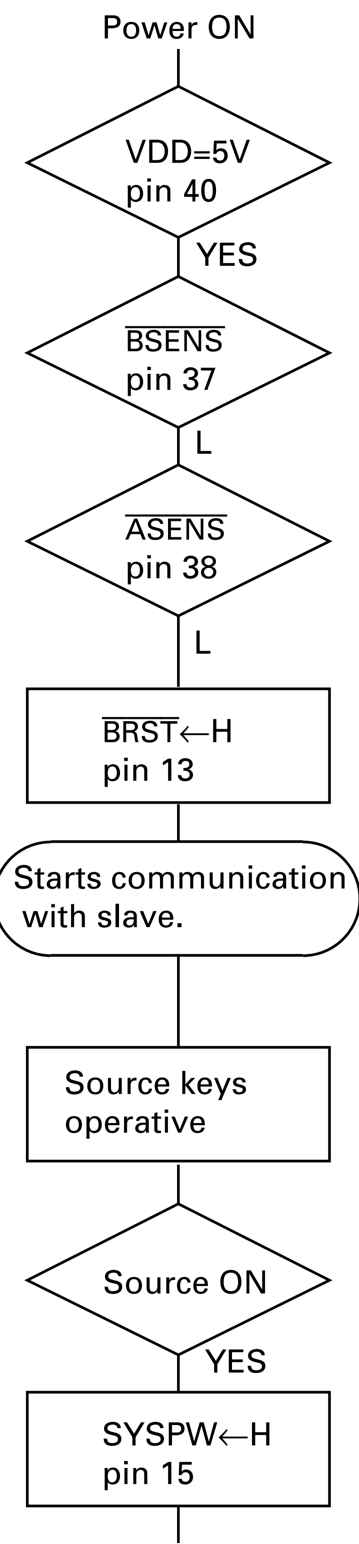
Output Format	Meaning
C	C MOS output

IC's marked by* are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

CWV1065



7.3 OPERATIONAL FLOW CHART



8. SPECIFICATIONS

General

Power source .... 14.4 V DC (10.5 – 16.0 V allowable)
Grounding system .... Negative type
Weight .... 1.1 kg

Amplifier

Maximum power output (SCU-2456ZRN) .... 15 W
(SCU-2556ZRN) .... 40 W
Rated power output (SCU-2456ZRN)......................... 10 W
(SCU-2556ZRN) .... 15 W
Load impedance .... 4 Ω (4 – 8 Ω allowable)

FM tuner

Frequency range .... 87.5 – 108 MHz
Usable sensitivity .... 10 dBf
(1.0 µV/75 Ω, mono, S/N: 30 dB)
40 dB quieting sensitivity .... 13 dBf
(1.7 µV/75 Ω, mono)
Signal-to-noise ratio ....More than 50 dB
Distortion ....Less than 1.5%
Stereo separation ....More than 20 dB

MW tuner

Frequency range .... 531 – 1,602 kHz (9 kHz)
Usable sensitivity .... 29dBµ (S/N: 20 dB)
Selectivity ....More than 45 dB

LW tuner

Frequency range .... 153 – 281 kHz
Usable sensitivity .... 33dBµ (S/N: 20 dB)
Selectivity ....More than 45 dB

Note:
- Specifications and the design are subject to possible modification without notice due to improvements.